

FIELD MAINTENANCE PRINT SET

UNIT VARIATIONS
COVERED BY THIS
PRINT SET

64AMA-YE
64AMA-YJ
64AMP-YE
64AMP-YJ

6400
FIELD MAINTENANCE
PRINT SET

DIGITAL EQUIPMENT
CORPORATION
EM01850-01

REVISIONS	CHG	NO.	REV.	INITIAL	USED ON OPTION/MODEL	DRN.	DATE	TITLE	SIZE CODE	NUMBER	REV.	
				A		B. CAILLER	25MAY88	FIELD MAINTENANCE VAX 6000-400/ VAXSERVER 6000-400	BTC	64AMA-Y-DBU2	A	
						M. MOYNIHAN	24OCT88					
						G. MAHEU	24OCT88					
						M. HARQUAIL	24OCT88					
		SHEET 1 OF 3					DIST.					





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TABLE OF CONTENTS

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B-TC-6400-0-DBU	6400 PRINT SET TABLE OF CONTENTS	E-CS-T2014-04	MS62A MEMORY MODULE
E-IC-H-6400-F-DBU	INTERCONNECT DIAGRAM	E-CS-T2014-05	MS62A MEMORY MODULE
E-AD-7024900-0-DBU	POWER AND PACKAGING ASSEMBLY	E-CS-T2014-06	MS62A MEMORY MODULE
K-PL-7024900-0-DBP	POWER AND PACKAGING ASSY PARTS LIST	E-CS-T2014-07	MS62A MEMORY MODULE
E-UA-T2015-	KA64A PROCESSOR MODULE ASSEMBLY	E-CS-T2014-08	MS62A MEMORY MODULE
K-PL-T2015-	KA64A PROCESSOR MODULE PARTS LIST	E-CS-T2014-09	MS62A MEMORY MODULE
E-BD-T2015-	KA64A PROCESSOR MODULE BLOCK DIAGRAM	E-CS-T2014-10	MS62A MEMORY MODULE
E-CS-T2015-XP01	KA64A PROCESSOR MODULE	E-CS-T2014-11	MS62A MEMORY MODULE
E-CS-T2015-XP02	KA64A PROCESSOR MODULE	E-CS-T2014-12	MS62A MEMORY MODULE
E-CS-T2015-XP03	KA64A PROCESSOR MODULE	E-CS-T2014-13	MS62A MEMORY MODULE
E-CS-T2015-XP04	KA64A PROCESSOR MODULE	E-CS-T2014-14	MS62A MEMORY MODULE
E-CS-T2015-XP05	KA64A PROCESSOR MODULE	E-CS-T2014-15	MS62A MEMORY MODULE
E-CS-T2015-XP06	KA64A PROCESSOR MODULE	E-CS-T2014-16	MS62A MEMORY MODULE
E-CS-T2015-XP07	KA64A PROCESSOR MODULE	E-CS-T2014-17	MS62A MEMORY MODULE
E-CS-T2015-XP08	KA64A PROCESSOR MODULE	E-CS-T2014-18	MS62A MEMORY MODULE
E-CS-T2015-XP09	KA64A PROCESSOR MODULE	E-UA-T2012-	DWMBA/A XBIA MODULE ASSEMBLY
E-CS-T2015-XP10	KA64A PROCESSOR MODULE	K-PL-T2012-	DWMBA/A XBIA PARTS LIST
E-CS-T2015-XP11	KA64A PROCESSOR MODULE	E-BD-T2012-	DWMBA/A XBIA BLOCK DIAGRAM
E-CS-T2015-XP12	KA64A PROCESSOR MODULE	E-CS-T2012-01	DWMBA/A XBIA MODULE
E-CS-T2015-XP13	KA64A PROCESSOR MODULE	E-CS-T2012-02	DWMBA/A XBIA MODULE
E-CS-T2015-XP14	KA64A PROCESSOR MODULE	E-CS-T2012-03	DWMBA/A XBIA MODULE
E-CS-T2015-XP15	KA64A PROCESSOR MODULE	E-CS-T2012-04	DWMBA/A XBIA MODULE
E-CS-T2015-XP16	KA64A PROCESSOR MODULE	E-CS-T2012-05	DWMBA/A XBIA MODULE
E-CS-T2015-XP17	KA64A PROCESSOR MODULE	E-CS-T2012-06	DWMBA/A XBIA MODULE
E-CS-T2015-XP18	KA64A PROCESSOR MODULE	E-CS-T2012-07	DWMBA/A XBIA MODULE
E-CS-T2015-XP19	KA64A PROCESSOR MODULE	E-CS-T2012-08	DWMBA/A XBIA MODULE
E-CS-T2015-XP20	KA64A PROCESSOR MODULE	E-CS-T2012-09	DWMBA/A XBIA MODULE
E-CS-T2015-XP21	KA64A PROCESSOR MODULE	E-CS-T2012-10	DWMBA/A XBIA MODULE
E-CS-T2015-XP22	KA64A PROCESSOR MODULE	E-CS-T2012-11	DWMBA/A XBIA MODULE
E-CS-T2015-XP23	KA64A PROCESSOR MODULE	E-CS-T2012-12	DWMBA/A XBIA MODULE
E-CS-T2015-XP24	KA64A PROCESSOR MODULE	E-CS-T2012-13	DWMBA/A XBIA MODULE
E-CS-T2015-XP25	KA64A PROCESSOR MODULE	E-CS-T2012-14	DWMBA/A XBIA MODULE
E-CS-T2015-XP26	KA64A PROCESSOR MODULE	E-CS-T2012-15	DWMBA/A XBIA MODULE
E-CS-T2015-XP27	KA64A PROCESSOR MODULE	E-CS-T2012-16	DWMBA/A XBIA MODULE
E-CS-T2015-XP28	KA64A PROCESSOR MODULE	E-CS-T2012-17	DWMBA/A XBIA MODULE
E-CS-T2015-XP29	KA64A PROCESSOR MODULE	E-CS-T2012-18	DWMBA/A XBIA MODULE
E-UA-T2014-BA ²	MS62A MEMORY MODULE ASSEMBLY	E-UA-T1043-	DWMBA/B XBIB MODULE ASSEMBLY
K-PL-T2014-BA-	MS62A MEMORY MODULE PARTS LIST	K-PL-T1043-	DWMBA/B XBIB PARTS LIST
E-BD-T2014-BA-	MS62A MEMORY MODULE BLOCK DIAGRAM	E-BD-T1043-	DWMBA/B XBIB BLOCK DIAGRAM
E-CS-T2014-01	MS62A MEMORY MODULE		
E-CS-T2014-02	MS62A MEMORY MODULE		
E-CS-T2014-03	MS62A MEMORY MODULE		

FIELD
MAINTENANCE

SHT 2 OF 3

SIZE CODE
B TC

NUMBER
62AMA-Y-DBU2

REV
A

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TABLE OF CONTENTS

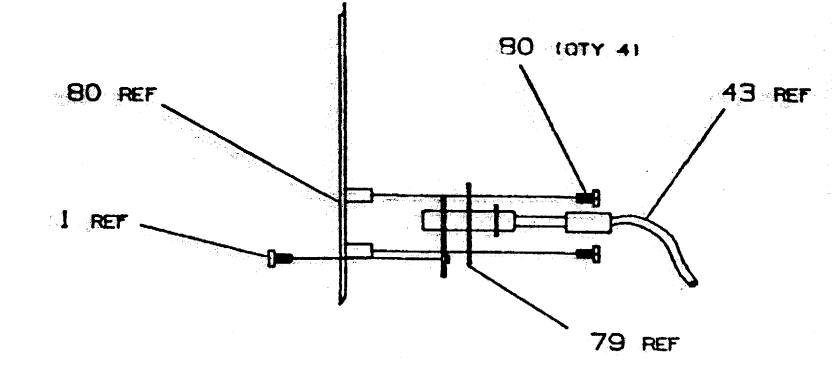
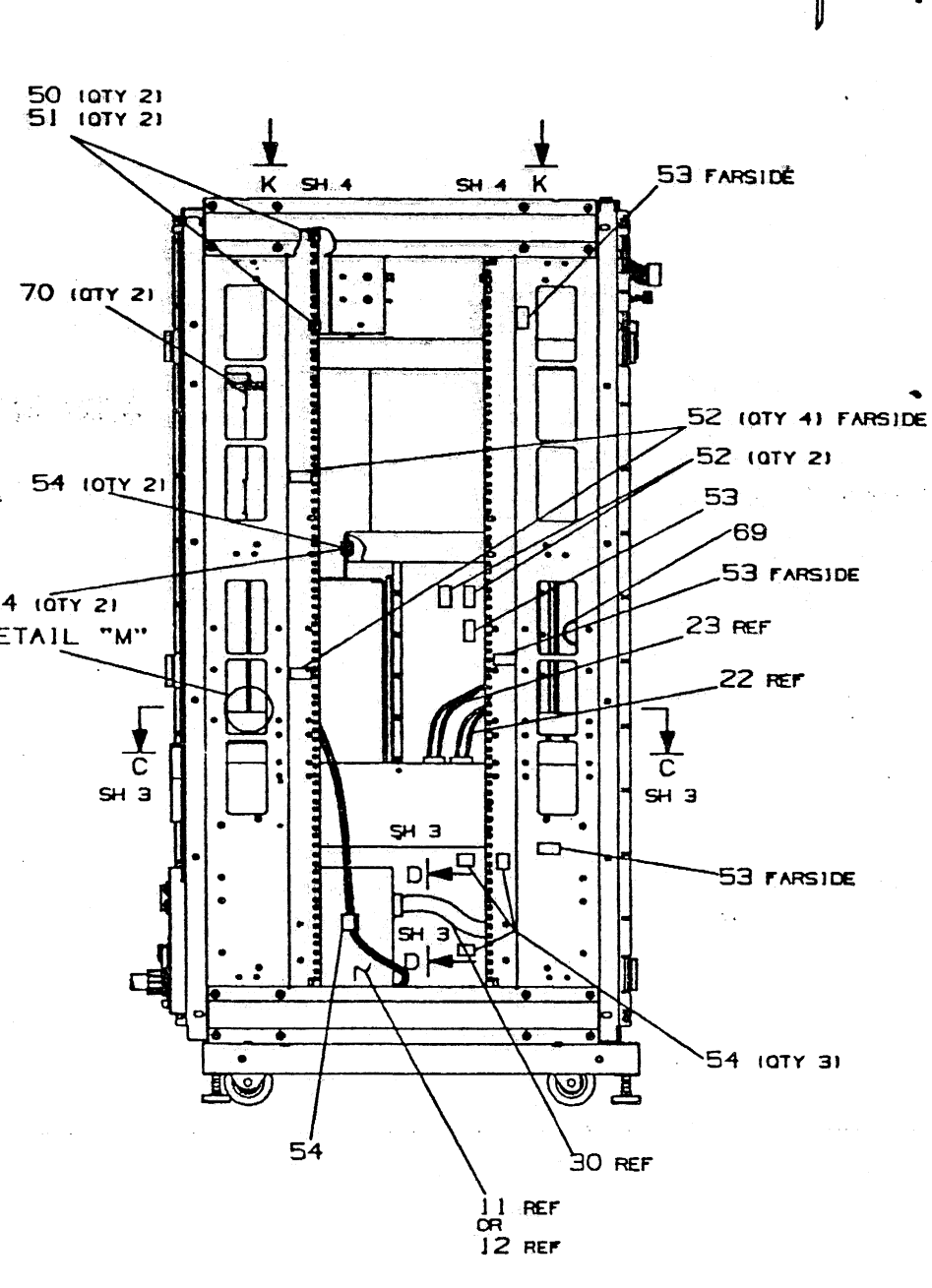
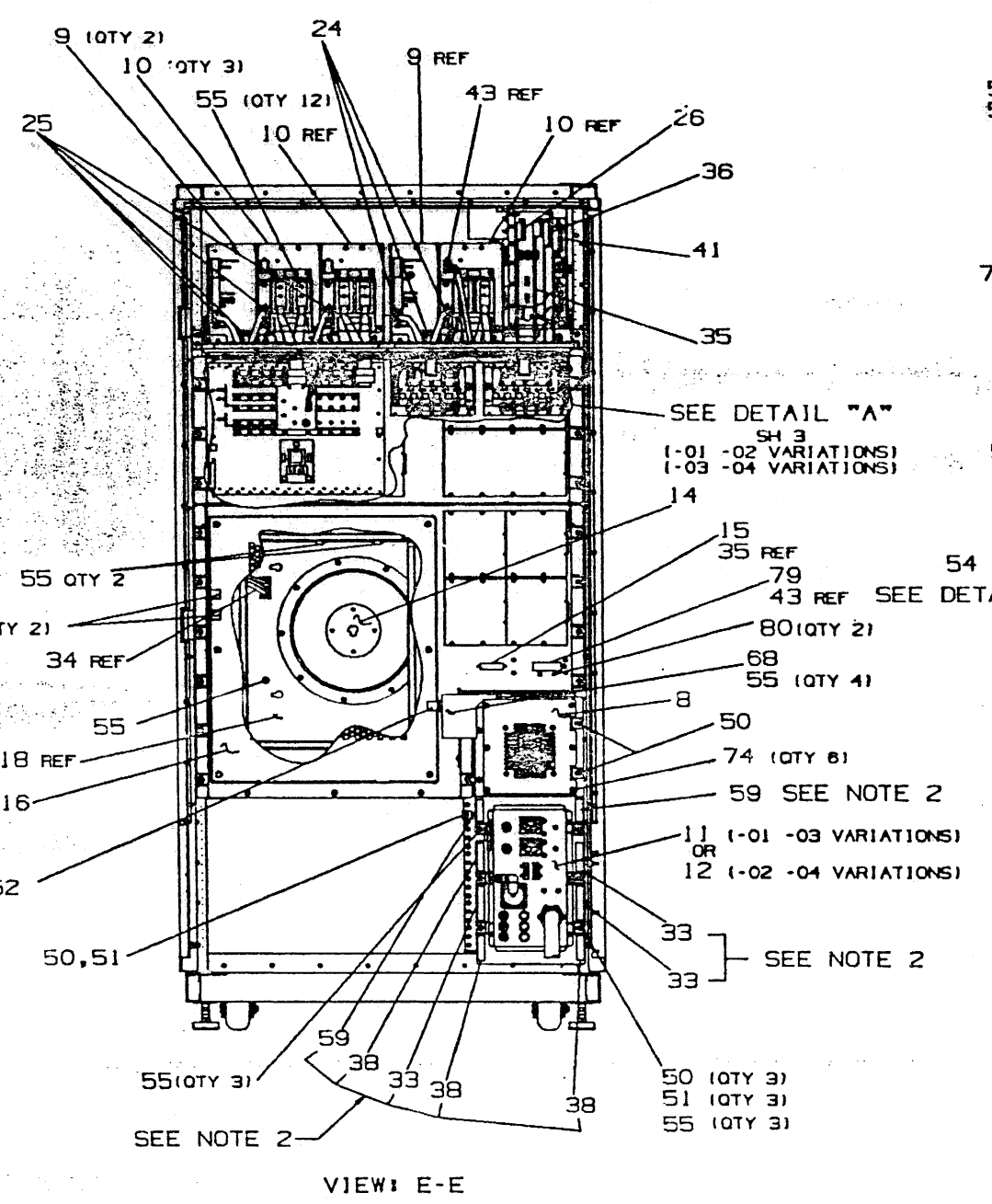
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E-CS-T1043-01	DWMBA/B XBIB MODULE	E-CS-5418176-0-0004	XMI BACKPLANE
E-CS-T1043-02	DWMBA/B XBIB MODULE	E-CS-5418176-0-0005	XMI BACKPLANE
E-CS-T1043-03	DWMBA/B XBIB MODULE	E-CS-5418176-0-0006	XMI BACKPLANE
E-CS-T1043-04	DWMBA/B XBIB MODULE	E-CS-5418176-0-0007	XMI BACKPLANE
E-CS-T1043-05	DWMBA/B XBIB MODULE	E-CS-5418176-0-0008	XMI BACKPLANE
E-CS-T1043-06	DWMBA/B XBIB MODULE	E-CS-5418176-0-0009	XMI BACKPLANE
E-CS-T1043-07	DWMBA/B XBIB MODULE	E-CS-5418176-0-0010	XMI BACKPLANE
E-CS-T1043-08	DWMBA/B XBIB MODULE	E-CS-5418176-0-0011	XMI BACKPLANE
E-CS-T1043-09	DWMBA/B XBIB MODULE	E-CS-5418176-0-0012	XMI BACKPLANE
E-CS-T1043-10	DWMBA/B XBIB MODULE	E-CS-5418176-0-0013	XMI BACKPLANE
E-CS-T1043-11	DWMBA/B XBIB MODULE	E-CS-5418176-0-0014	XMI BACKPLANE
E-CS-T1043-12	DWMBA/B XBIB MODULE	✓ E-UA-H7206-0-DBU	POWER AND LOGIC BOX ASSEMBLY
E-CS-T1043-13	DWMBA/B XBIB MODULE	✓ K-PL-H7206-0-DBP	POWER AND LOGIC BOX PARTS LIST
E-CS-T1043-14	DWMBA/B XBIB MODULE	E-UA-5418169-	H7206, AC INPUT FAN POWER ASSEMBLY
E-CS-T1043-15	DWMBA/B XBIB MODULE	K-PL-5418169-	H7206, AC INPUT FAN PWR PARTS LIST
E-CS-T1043-16	DWMBA/B XBIB MODULE	E-CS-5418169-	H7206, AC INPUT FAN POWER MODULE
E-UA-5418172-1-0	CLK ARBITER MODULE ASSEMBLY	E-UA-5417007-	H7206, LOGIC BOARD ASSEMBLY
K-PL-5418172-1-0	CLK ARBITER PARTS LIST	K-PL-5417007-	H7206, LOGIC BOARD PARTS LIST
E-CS-5418172-0-1	CLK ARBITER MODULE	E-CS-5417007-	H7206, LOGIC BOARD MODULE
E-CS-5418172-0-2	CLK ARBITER MODULE	✓ E-UA-H405-0-DBU	POWER CONTROL, ASSEMBLY
E-CS-5418172-0-3	CLK ARBITER MODULE	✓ K-PL-H405-0-DBP	POWER CONTROL, PARTS LIST
✓ E-AD-7024903-0-DBU	CONTROL ASSEMBLY SYSTEM	✓ D-IC-H405-E-DBU	POWER CONTROL, INTERCONNECT
✓ K-PL-7024903-0-DBP	CONTROL ASSEMBLY SYSTEM PARTS LIST	✓ D-IC-H405-F-DBU	POWER CONTROL, INTERCONNECT
E-UA-541724301-	XTC CONTROL MODULE ASSEMBLY	✓ E-AD-H7214-0-DBU	600W, +5 REGULATOR ASSEMBLY
K-PL-541724301-	XTC CONTROL MODULE PARTS LIST	✓ K-PL-H7214-0-DBP	600W, +5 REGULATOR PARTS LIST
E-BD-541724301-	XTC CONTROL MODULE BLOCK DIAGRAM	E-UA-541700501	INPUT CONVERTER ASSEMBLY
E-CS-541724301-	XTC CONTROL MODULE	K-PL-541700501	INPUT CONVERTER PARTS LIST
E-UA-541657401-	SCORPIO CONTROL PANEL ASSEMBLY	E-CS-541700501	INPUT CONVERTER MODULE
K-PL-541657401-	SCORPIO CONTROL PANEL PARTS LIST	✓ E-AD-H7215-0-DBU	300W, REGULATOR ASSEMBLY
E-CS-541657401-	SCORPIO CONTROL PANEL	✓ K-PL-H7215-0-DBP	300W, REGULATOR PARTS LIST
E-UA-541854701-	DC FILTER ASSEMBLY	E-UA-541697701	300W, REGULATOR ASSEMBLY
K-PL-541854701-	DC FILTER PARTS LIST	K-PL-541697701	300W, REGULATOR PARTS LIST
E-CS-541854701-	DC FILTER MODULE	E-CS-541697701	300W, REGULATOR
✓ E-AD-7024126-0-DBU	CARDCAGE ASSEMBLY, DUAL BI	K-PL-64AMA-Y-DBP	VAX 6400 DUAL BI PARTS LIST
✓ K-PL-7024126-0-DBP	CARDCAGE ASSY, DUAL BI PARTS LIST	E-UA-64AMA-Y-DBU	VAX 6400 DUAL BI BASIC KERNEL
✓ E-AD-7024902-0-DBU	14 SLOT ASSEMBLY, XMI	K-PL-64AMP-Y-DBP	VAXSERVER 6400 DUAL BI PARTS LIST
✓ K-PL-7024902-0-DBP	14 SLOT ASSEMBLY, XMI PARTS LIST	E-UA-64AMP-Y-DBU	VAXSERVER 6400 DUAL BI BASIC KERNE
E-UA-541817610	XMI BACKPLANE		
E-CS-5418176-0-0001	XMI BACKPLANE		
E-CS-5418176-0-0002	XMI BACKPLANE		
E-CS-5418176-0-0003	XMI BACKPLANE		

FIELD MAINTENANCE	SHT 3 OF 3	SIZE CODE BTC	NUMBER 64AMA-Y-DBU2	RE /
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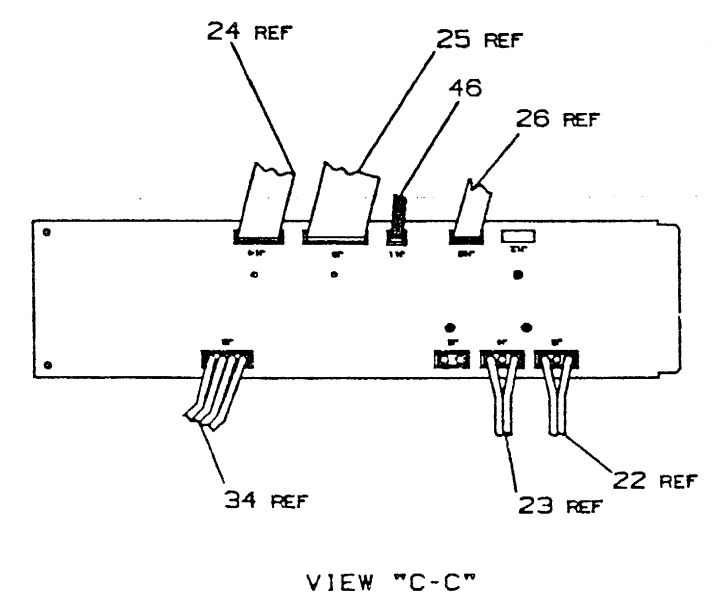
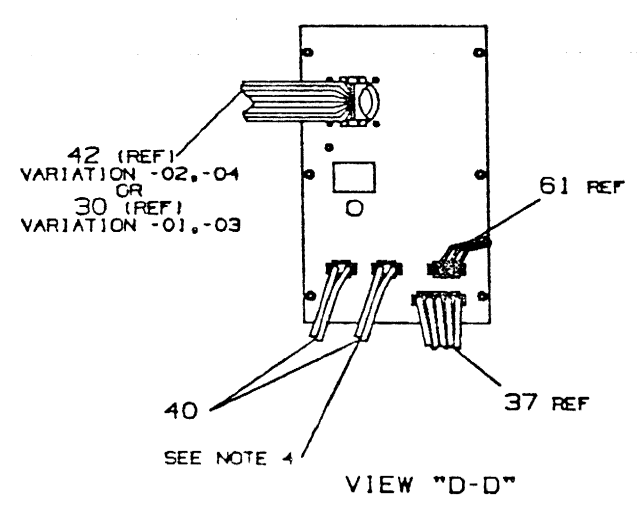
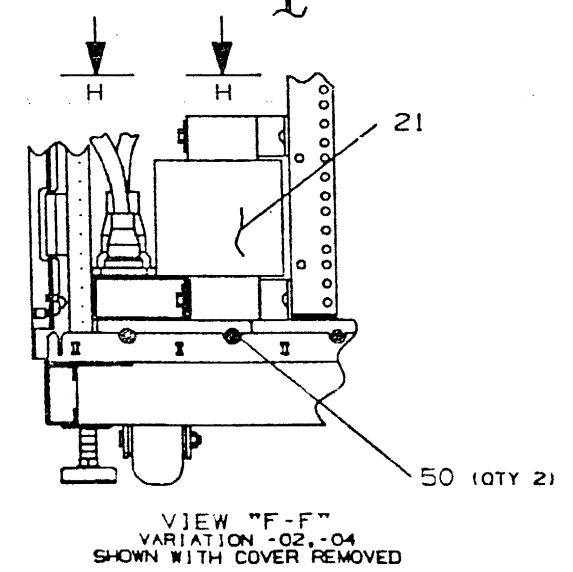
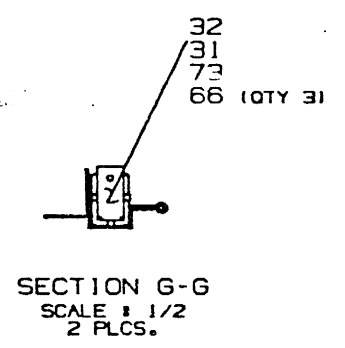
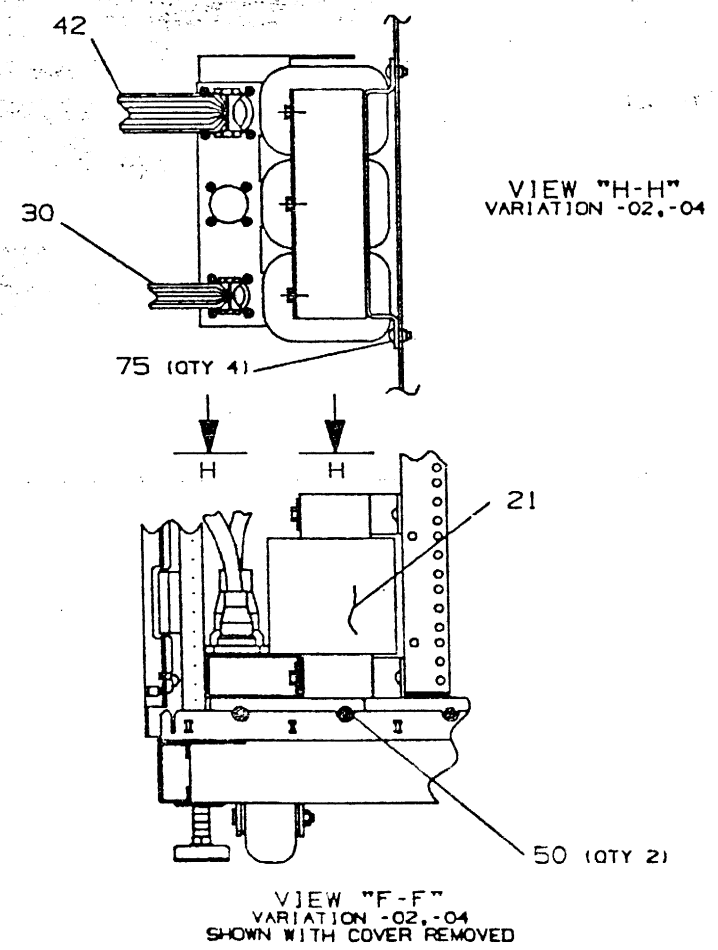
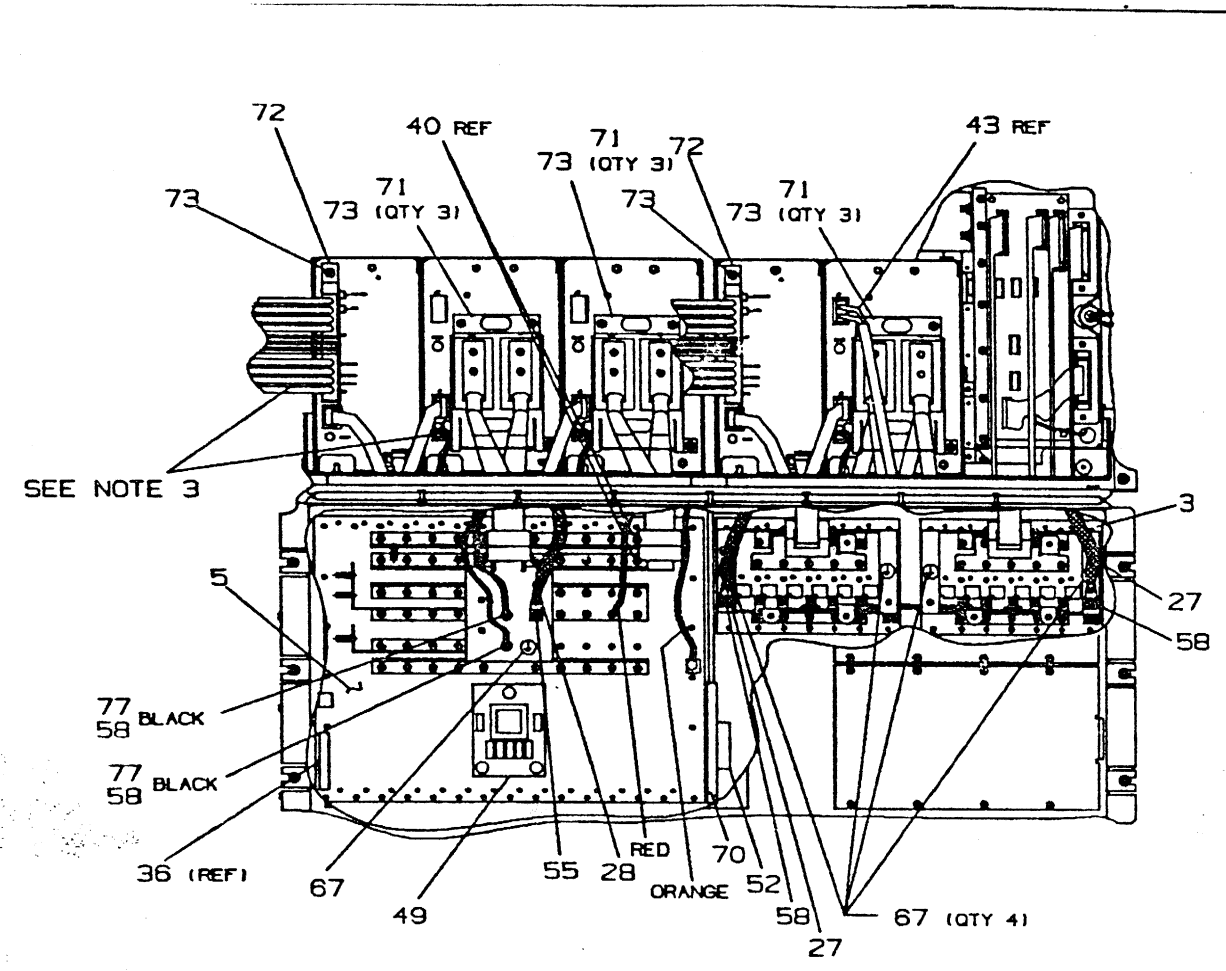
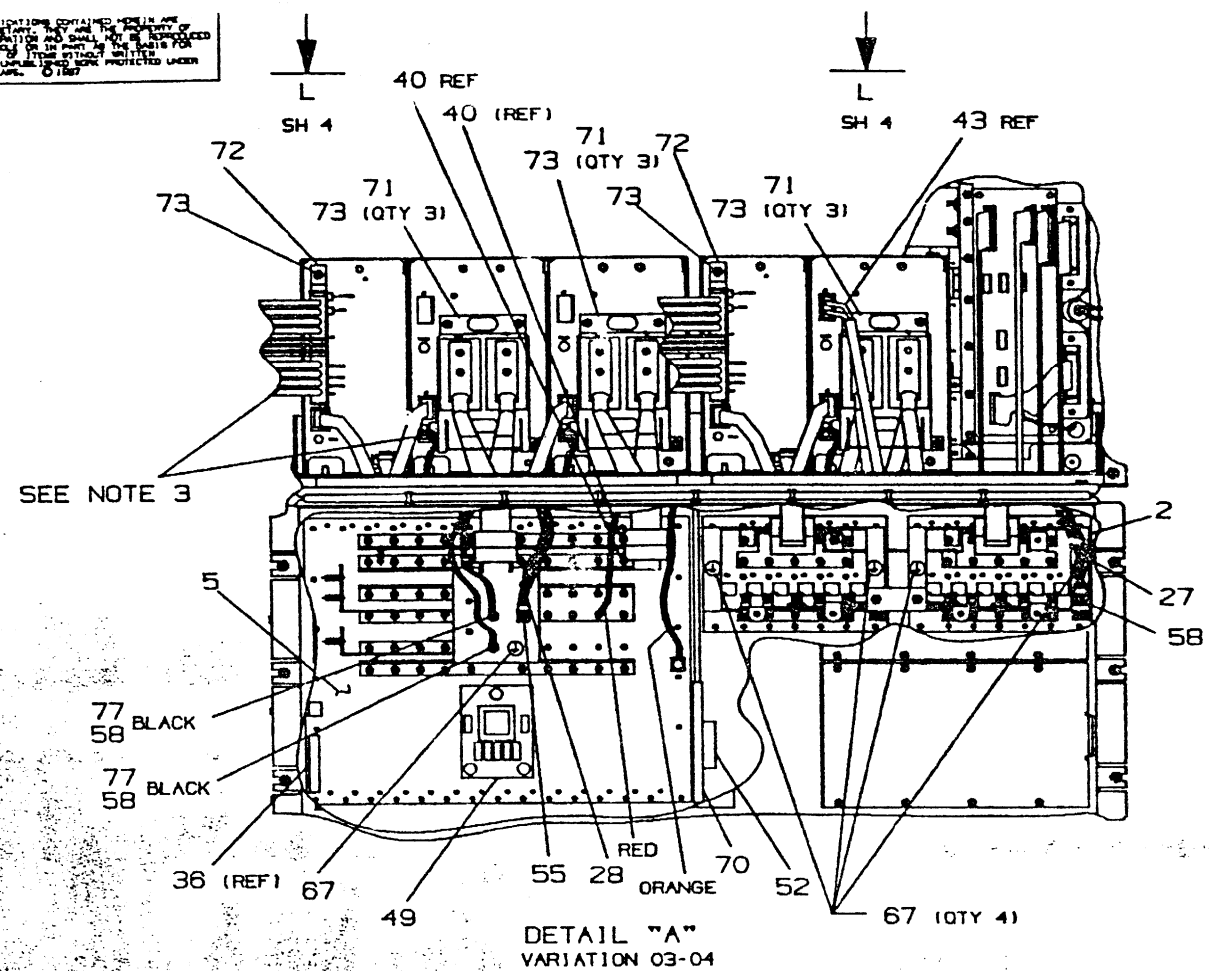
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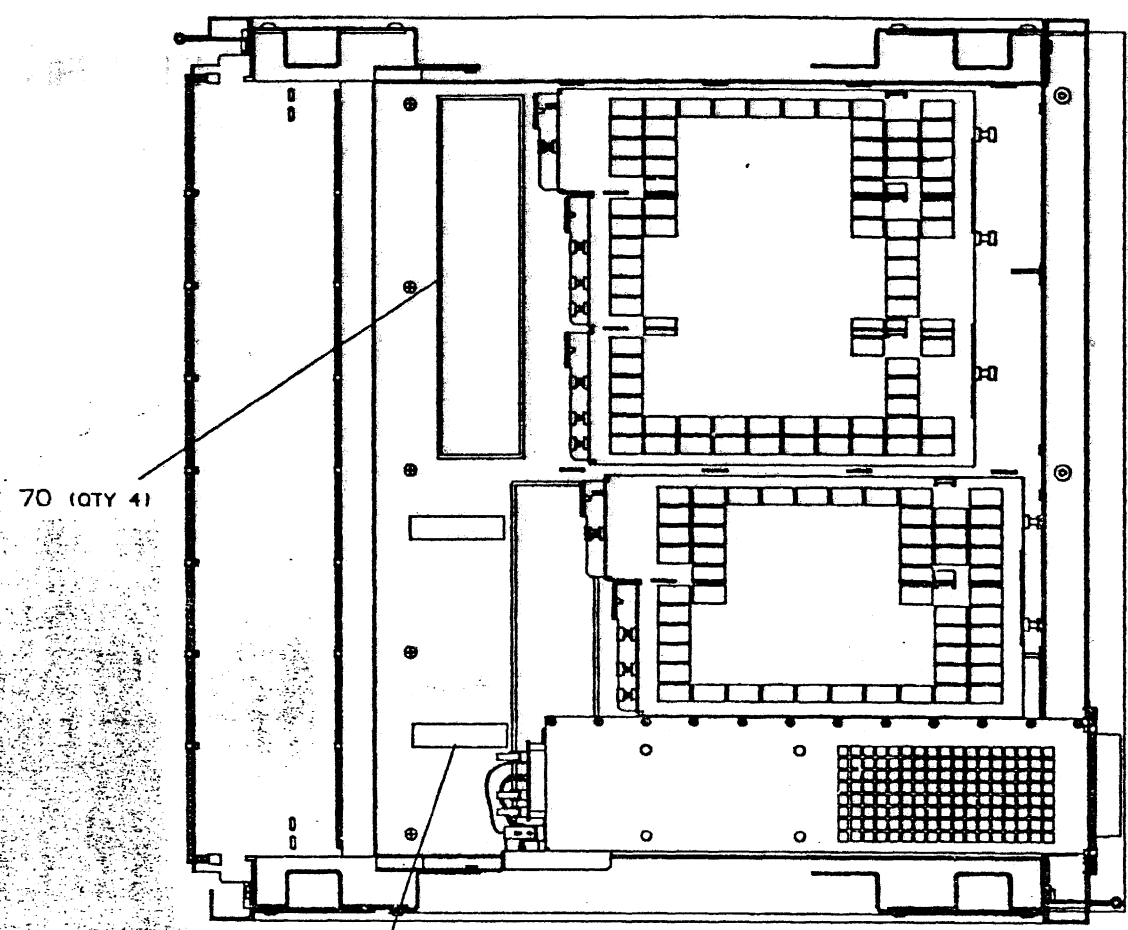


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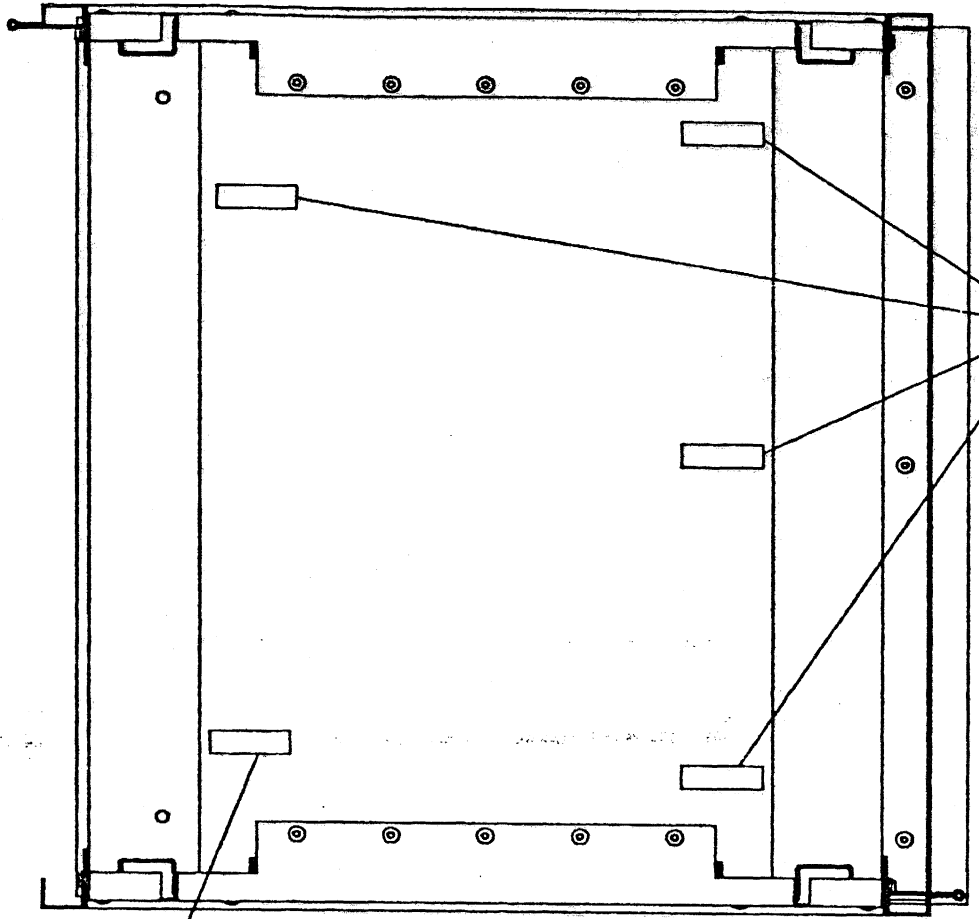
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70 (QTY 4)

52 (QTY 2)
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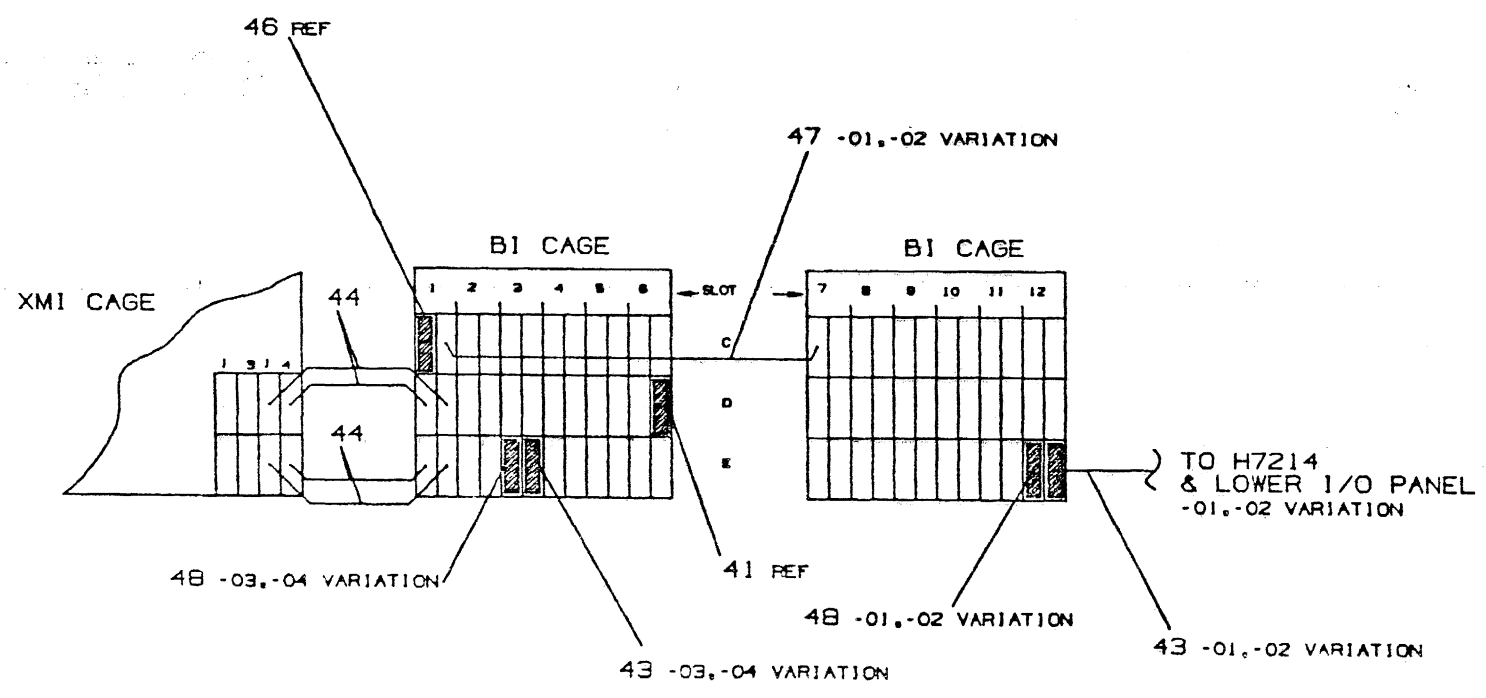
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SCALE : 1/2



53 REF.

53 (QTY 5)
FARSIDE

VIEW K-K
SCALE : 1/2



XMI CAGE

BI CAGE

BI CAGE

48 -03,-04 VARIATION

47 -01,-02 VARIATION

41 REF

43 -03,-04 VARIATION

48 -01,-02 VARIATION

TO H7214
& LOWER I/O PANEL
-01,-02 VARIATION

43 -01,-02 VARIATION

REVISION HISTORY		
DATE	ECO HISTORY	REV

PLOT AT: .250

DOCUMENT NUMBER

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION			
						01 B2	02 B2	03 B2	04 B2
33	33		12-28686-17		SHIELD,RFI GASKET AD	3	3	3	3
34	34		17-01570-01		WIRE HARN ASSY 09COND 18AWG 2MNL-2	1	1	1	1
35	35		17-01567-01	C	CABLE ASSY 04 COND,RND,22AWG,10PID	1	1	1	1
36	36		17-01568-02		CABLE ASSY,20 COND,FLAT,20(2X10)RE	1	1	1	1
37	37		17-01549-01		WIRE HARN ASSY 05COND 18AWG MATNLO	1	1	1	1
38	38		12-28686-16		SHIELD,RFI GASKET AD	3	3	3	3
39	39		12-24023-01		CABLE ASSY,W/WRIST STRAP	2	2	2	2
40	40		17-01833-01		WIRE HARN ASSY 04COND 18AWG (2)2PM	1	1	1	1
41	41		17-01814-01		WIRE HARN ASSY 26COND 22AWG 26PIDC	1	1	1	1
42	42		17-01815-01		WIRE HARN ASSY 04COND 14AWG 19PCON	-	1	-	1
43	43		17-01496-01		CABLE ASSY,09 COND,RND,28AWG,MNL+I	1	1	1	1
44	44		17-01897-02		CABLE ASSY FLAT,	2	2	2	2
45	45		90-10624-01		BRACKET,MOUNTING	1	1	1	1
46	46		17-01569-01		WIRE HARN ASSY 04COND 22AWG 10PCON	1	1	1	1
47	47		17-00849-08		CABLE ASSY,FLAT RIBBON 28AWG 30POS	1	1	-	-
48	48		17-01149-01		JUMPER ASSY 28AWG IDC-PULL T	1	1	1	1
49	49		54-18172-01		CLOCK ARBITER CARD FOR XMI	1	1	1	1
50	50		90-00063-39		SCREW,THD RL, TRS,SERATD,F/METL	12	12	12	12
51	51		90-07786-00		RETAINER,U-NUT 10-32X	12	12	12	12
52	52		12-15843-03		CLIP,FLAT CABLE W/ADHESIVE BK	8	8	8	8
53	53		12-15843-01		CLIP,FLAT CABLE W/ADHESIVE BK	11	11	11	11
54	54		90-09636-00		CLAMP,CABLE ADH MNT 1	12	12	12	12
55	55		90-00063-37		SCREW,THD RL, TRS,SERATD,F/METL	30	30	30	30
56	56		90-07031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	2	2	2	2
57	57		90-06557-00		NUT,HEX EXT TOOTH LCKWSHR 4-40X	4	4	4	4
58	58		90-06563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32X	4	4	3	3
59	59		12-28686-14		SHIELD,RFI GASKET AD	2	2	2	2
60	60		36-23595-01		LABEL,CONTROL PANEL,SCORPIO WORDS	1	-	1	-
61	61		17-01844-01		WIRE HARN ASSY 02COND 18AWG 3PMNL-	1	1	1	1
62	62		36-23595-02		LABEL,CONTROL PANEL,SCORPIO SYMBOL	-	1	-	1
63	63	E-MD-7435215-0-DBU	74-35215-01		PANEL,FRONT	1	-	1	-
64	64	E-MD-7535215-0-DBU	74-35215-02		PANEL,FRONT	-	1	-	1
65	65	D-AD-7019605-0-DBU	70-19605-02		GASKET ASSY.	2	2	2	2
66	66		12-21535-01		CLIP,NYLON FOR RF GASKET	10	10	10	10
67	67		36-12680-02		LABEL,GROUND SYMBOL W/CIRCLE BLACK	5	5	5	5
68	68	D-IA-7025525-0-DBU	70-25525-01		GUIDE WELDMENT , CABLE	1	1	1	1
69	69		90-07035-00		GROMMET,CATERPILLAR POLYAMIDE 1	2	2	2	2
70	70		90-09718-00		GROMMET,STRIP STYRENE	7	7	7	7
71	71	D-MD-7435974-0-DBU	74-35974-01		COVER,6W REGULATOR	3	3	3	3
72	72	C-MD-7435973-0-DBU	74-35973-01		BRACKET,Z	2	2	2	2
73	73		90-06560-00		NUT,HEX EXT TOOTH LCKWSHR 6-32X	13	13	13	13
74	74		90-09988-08		SCREW,SEMS HEX SLOT 8-32	14	14	14	14
75	75		90-09988-00		SCREW,SEMS HEX SLOT 1/4-20	-	4	-	4
76	76		90-09984-07		SCREW,SEMS PAN PHIL 6-32	1	1	1	1
77	77		90-06660-00		WASHER,FLAT SST	2	2	2	2
78	78		36-28231-08		LABEL,DIRECT THERMAL 1.00X 2.50	1	1	1	1
79	79		12-30141-02		BULKHEAD,ECM FOR CALYPSO	1	1	1	1
80	80		90-09984-02		SCREW,SEMS PAN PHIL 6-32	6	6	6	6

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							POWER & PACKAGING ASSY		K	PL	7024900-0-DBP	C

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION			
					01 B2	02 B2	03 B2	04 B2
1	E-AD-7024614-0-DBU	70-24614-01		MECHANICAL CAB. ASSY	1	1	1	1
2	E-AD-7024126-0-DBU	70-24126-02		CARDCAGE ASSY,DUAL BI	-	-	1	1
3	E-AD-7024126-0-DBU	70-24126-01		CARDCAGE ASSY, DUAL BI	1	1	-	-
4		36-17674-00		LABEL,SERIAL/POWER W/O UL + CSA LO	1	1	1	1
5	E-AD-7024902-0-DBU	70-24902-01		XMI/BUS BAR ASSY,14 SLOT	1	1	1	1
6	D-AD-7024389-0-DBU	70-24389-01		COVER ASSY,BI CARDCAGE	1	1	1	1
7	D-AD-7024390-0-DBU	70-24390-01		COVER ASSY,XMI CARDCAGE	1	1	1	1
8	E-UA-H7206-A-DBU	H7206-A		POWER & LOGIC BOX,208/300VDC 2000W	1	1	1	1
9	E-UA-H7215-A-DBU	H7215-A		300VDC AND 14VDC IN,-5.2V 30A,-2V	2	2	2	2
10	E-UA-H7214-A-DBU	H7214-A		600W,+5V 120A,13.5V 0.5A,30KHZ SWT	3	3	3	3
11	E-UA-H405-E-DBU	H405 -E		H405-A W/2 SW DEC PWR BUS OUT,1 UN	1	-	1	-
12	E-UA-H405-F-DBU	H405 -F	E	*** THIS ITEM IS NOT USED ***	-	-	-	-
13	E-AD-7024903-0-DBU	70-24903-01		CONTROL ASSY,SYSTEM	1	1	1	1
14		12-27848-01		BLOWER,BACKWD INCLIN 24VDC	2	2	2	2
15		90-08451-00		SCREW LOCK,ASSY .060THK	1	1	1	1
16	E-IA-7435004-0-DBU	74-35004-01		PANEL,I/O BLOWER	1	1	1	1
17	E-IA-7024612-0-DBU	70-24612-01		EXT. ASSY, FRONT	1	1	1	1
18	E-IA-7024613-0-DBU	70-24613-01		EXTENSION ASSY,REAR	1	1	1	1
19		74-34752-01		BRACKET,SENSOR,FRONT	1	1	1	1
20		12-25024-11		SENSOR,AIR FLOW TEMP	1	1	1	1
21		16-28393-01	B	XFMR,AUTO,3PHASE 50HZ 4.5KVA P=416	-	1	-	1
22		17-01446-01		WIRE HARN ASSY 06COND 18AWG (2)3PM	1	1	1	1
23		17-01447-01		WIRE HARN ASSY 04COND 16AWG 4SMNL-	1	1	1	1
24		17-01666-01		CABLE ASSY,24 COND,FLAT,28AWG,24SI	1	1	1	1
25		17-01497-02		CABLE ASSY,34 COND,FLAT,28AWG,34CO	1	1	1	1
26		17-01498-01		CABLE ASSY,34 COND,FLAT,14(2X07)RE	1	1	1	1
27		17-01458-02		WIRE HARN ASSY 02AWG W/FERR	2	2	1	1
28		17-01662-01		WIRE HARN ASSY 2AWG 90D LU	1	1	1	1
29		17-01499-01		WIRE HARN ASSY 02COND 18AWG MATNLO	2	2	2	2
30		17-01501-01		WIRE HARN ASSY 06COND 18AWG MATNOL	1	1	1	1
31		70-19605-01		GASKET ASSY.	2	2	2	2
32	C-IA-7435919-0-DBU	74-35919-01		FILLER,BRACKET,ANGLE SEAL	2	2	2	2

REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A		DRN: P. TOUSIGNANT		DIGIT A L			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE:	CHK'D:		TITLE PARTS LIST				
---	INITIAL	A	[A]	01,02,03,04	07-MAY-87	J. KUSHIGAN		POWER & PACKAGING ASSY				
SR	7024900-LTN01	B	[B]		17-AUG-87	M. ZAMBARANO		DOCUMENT NUMBER				
PF	7024900-LTN02	C	[C]		18-JAN-88	M. ZAMBARANO		SIZE	CODE	NUMBER	REV	
			[D]			M. ZAMBARANO		K	PL	7024900-0-DBP	C	
			[E]			M. ZAMBARANO		RELEASE DATE: 19-DEC-88				
			[F]			M. ZAMBARANO		RELEASE STATUS: RELEASED				
			[H]			R. DISTEFANO						
			[J]			R. DISTEFANO						
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			7024900		E-AD-7024900-0-DBU		E-AD-7024900-0-DBU		7024900C.PLS		2	

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PRELIMINARY

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PRELIMINARY

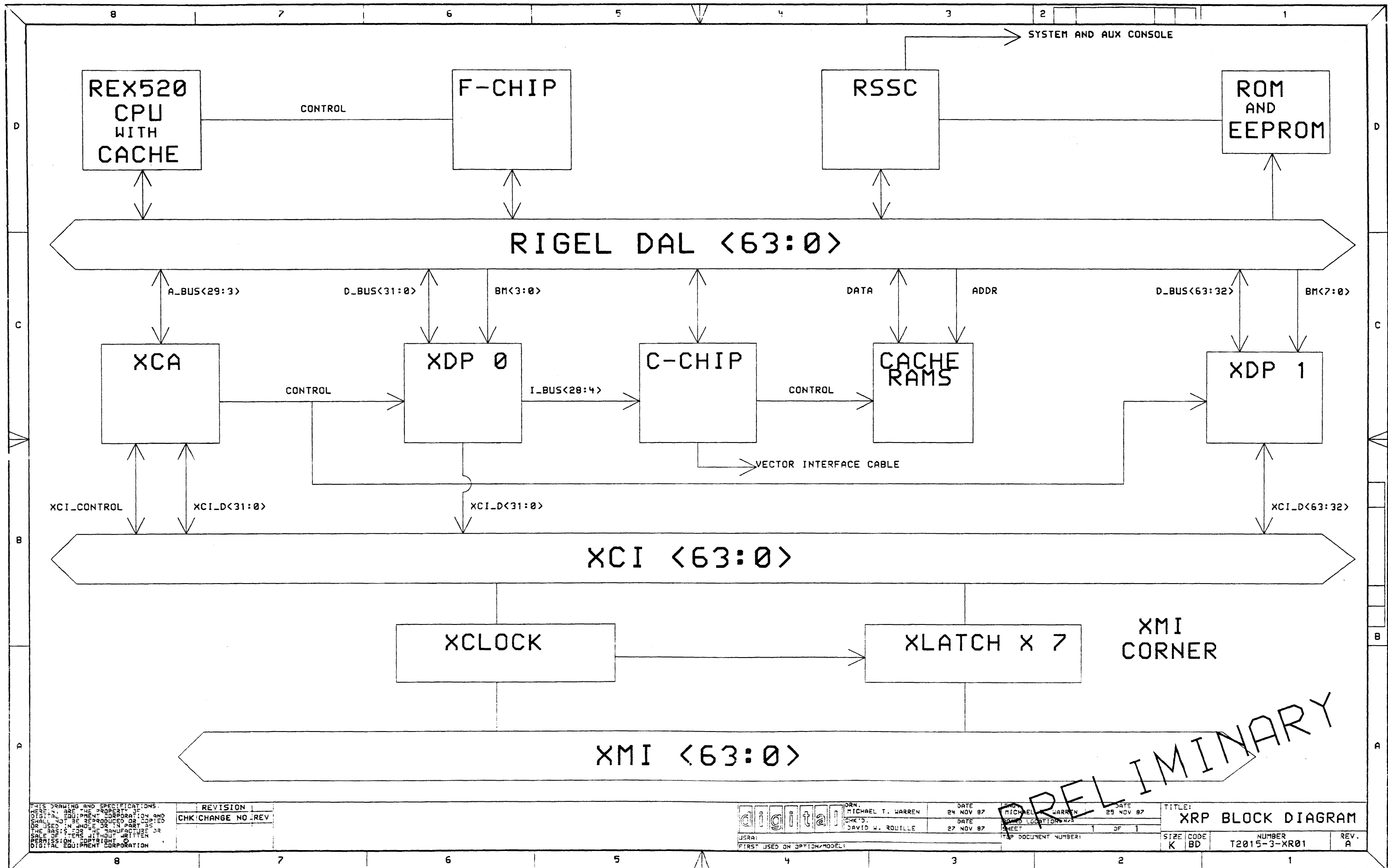
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digital

TOP_DOCUMENT= K-DD-T2015-0-0
 ENG= P. SULLIVAN
 LAST_MODIFIED= 1/18/89

TITLE: BUILD DATA INDEX
 COMMENT=
 DESIGN_OBJECT= ABBREV= REVISION=

SHEET=1 OF 1 DOC_NUMBER= K-ST-T2015-3-0 DOC_REV A



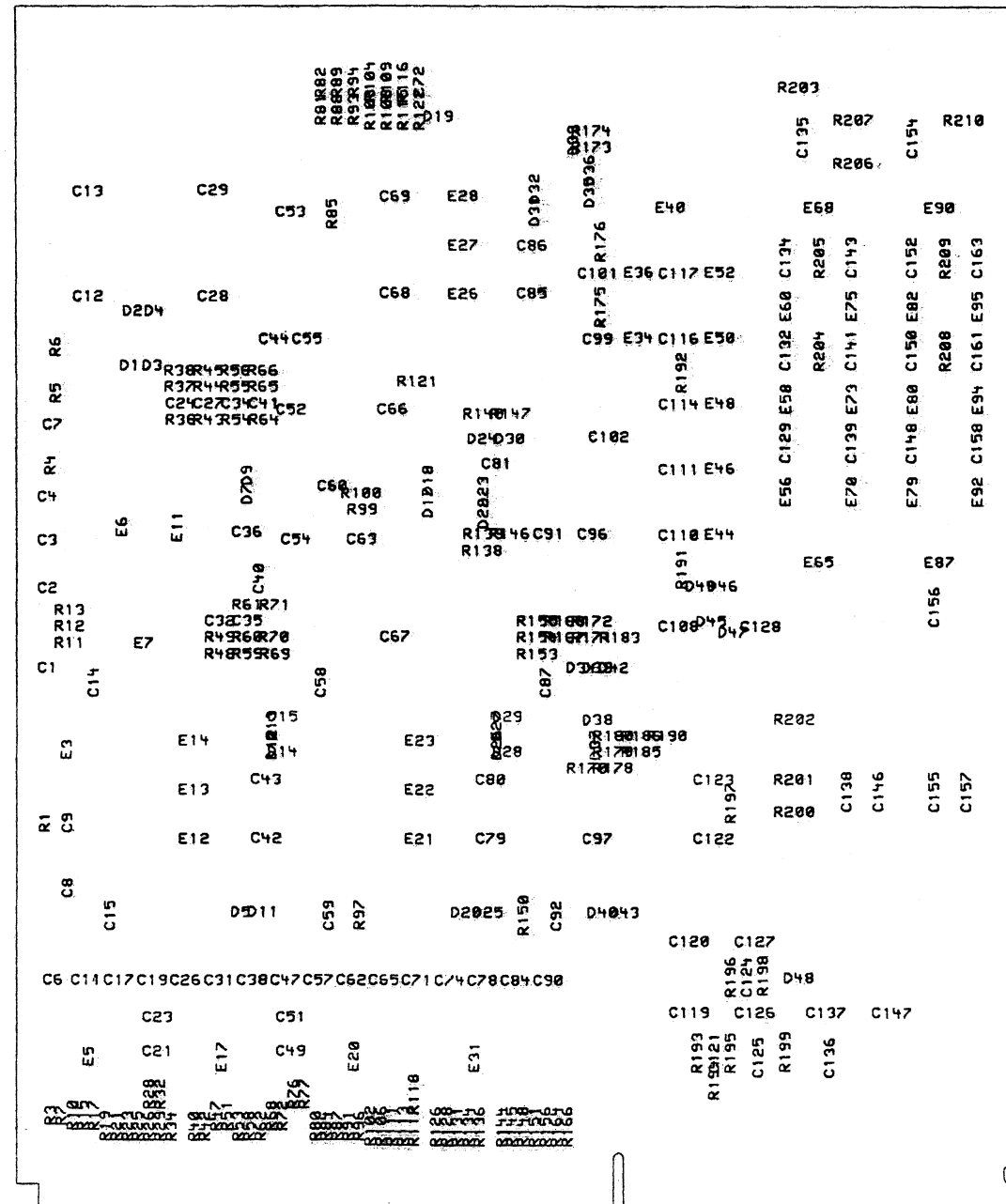
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REVISION	CHK	CHANGE NO.	REV.

digital	DRN. MICHAEL T. WARREN	DATE 24 NOV 87	DRN. MICHAEL T. WARREN	DATE 25 NOV 87
	CHK'D. DAVID W. ROUILLE	DATE 27 NOV 87	DRN. MICHAEL T. WARREN	DATE 25 NOV 87
USRA:	SHEET 1 OF 1		TITLE: XRP BLOCK DIAGRAM	
FIRST USED ON OPTION/MODEL:	IT&P DOCUMENT NUMBER:		SIZE: K	CODE: BD
			NUMBER: T2015-3-XR01	REV.: A

VIEWED FROM SIDE 2
SOLDER SIDE

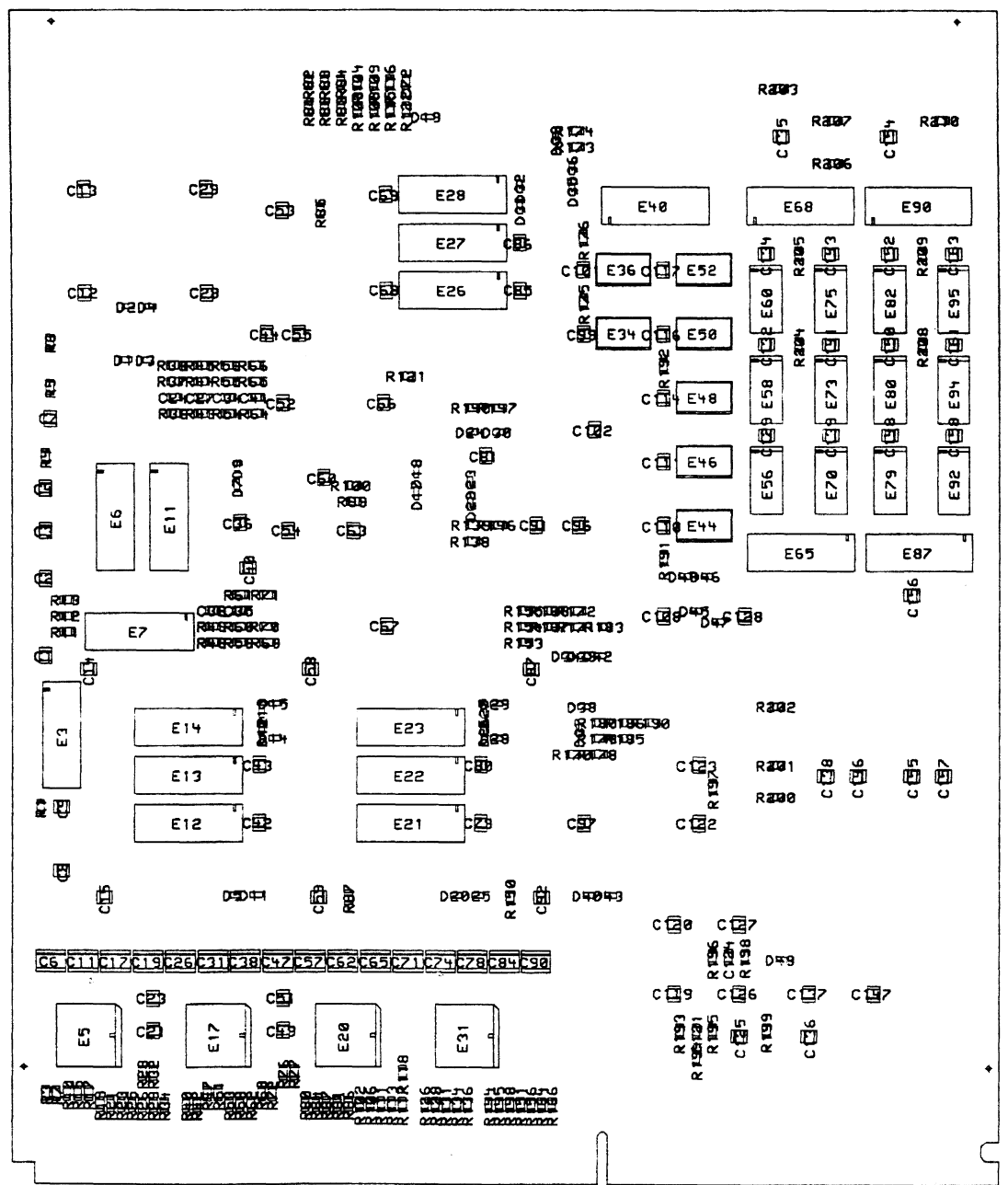


PRELIMINARY

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XRP ASSEMBLY DRAWING		SIZE	NUMBER
		E UA	T2015-3-0
SCALE 2/1		REV a	
		SHEET 6 OF 6	

1 WO# 174645

VIEWED FROM SIDE 2
SOLDER SIDE

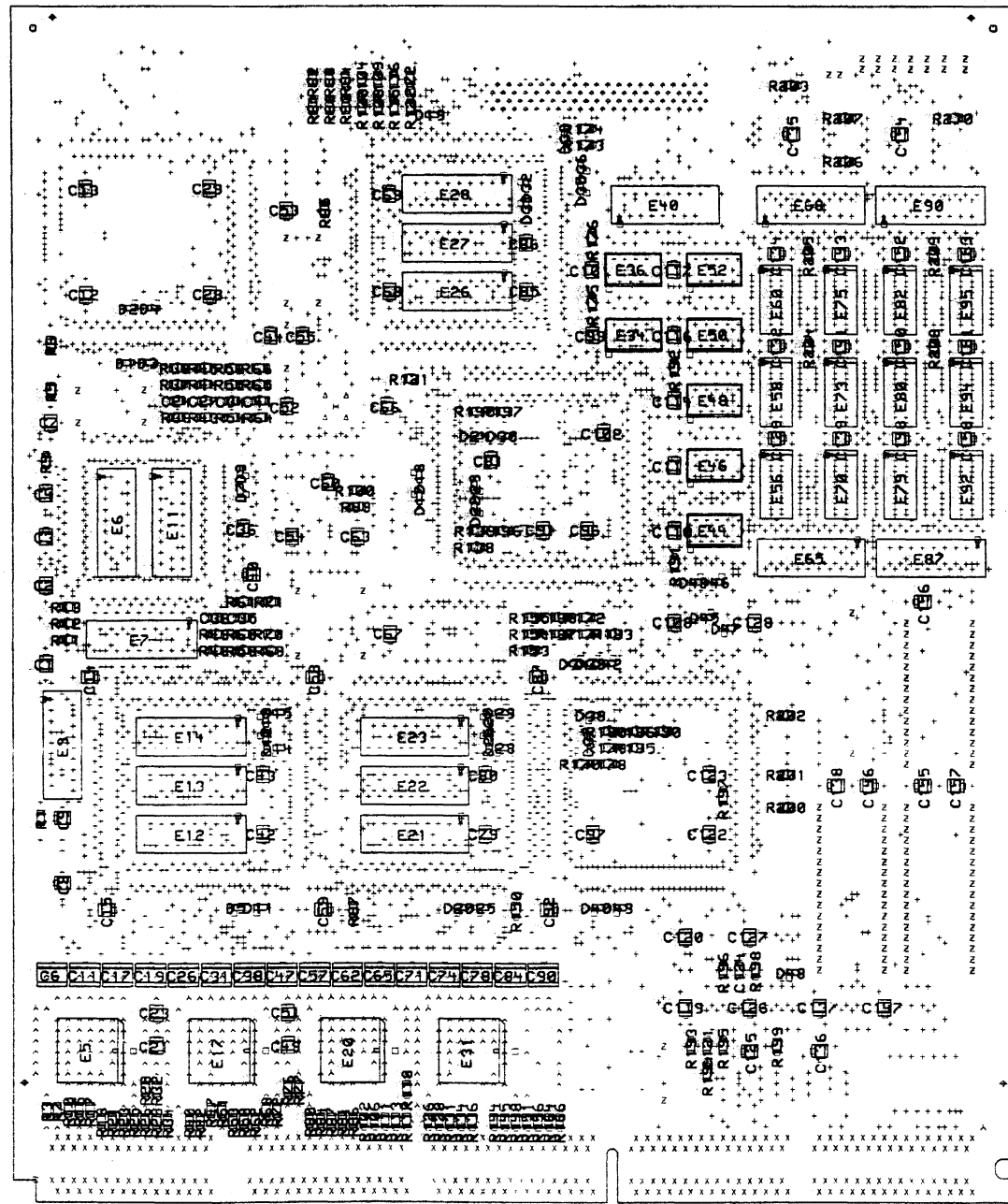


PRELIMINARY

DOCUMENT NUMBER		REV	
SIZE	CODE	NUMBER	REV
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SCALE 2/1		SHEET 6 OF 6	

WO# 124645

VIEWS FROM SIDE 2
SOLDER SIDE

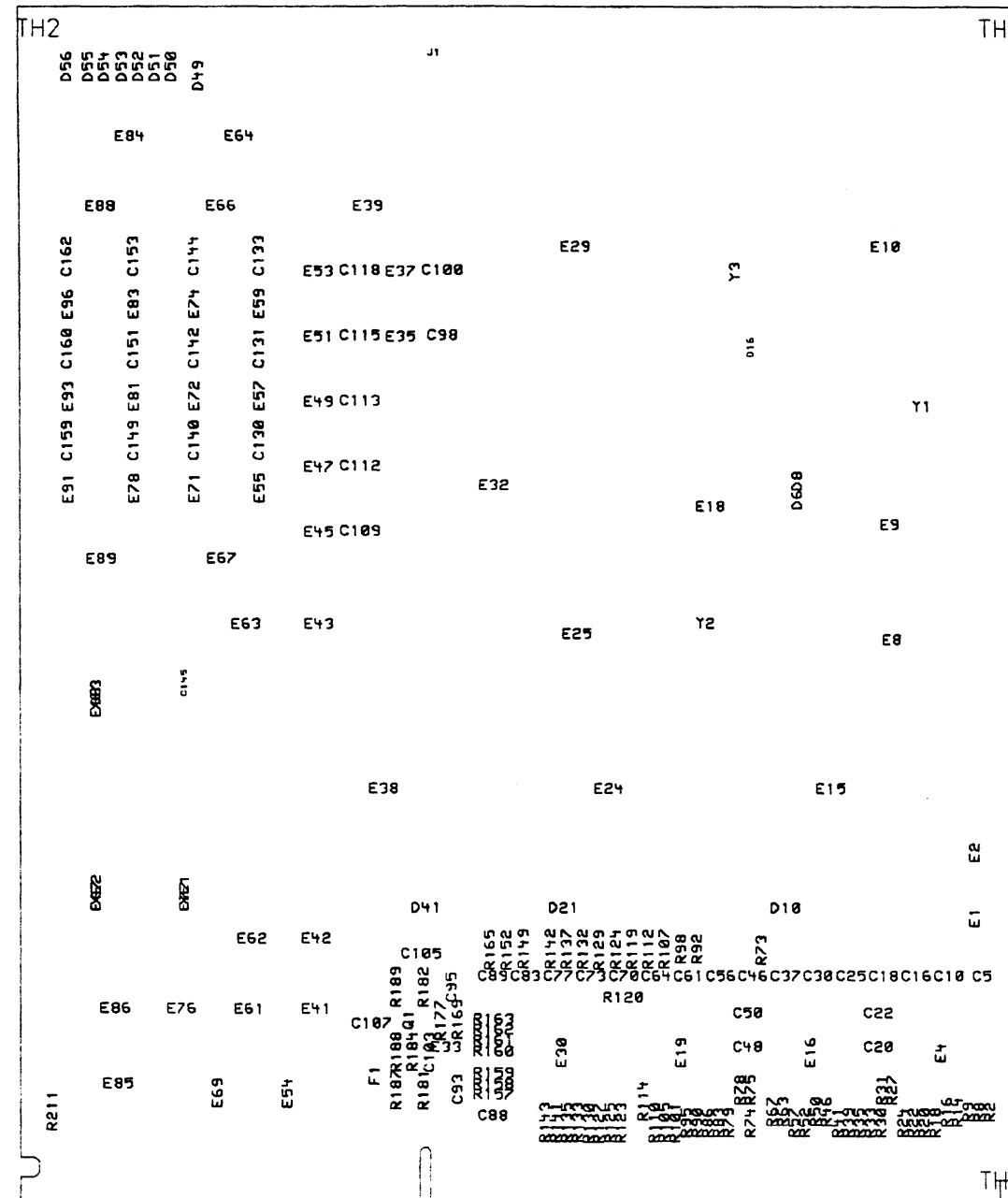


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		SCALE 2/1	SHEET 4 OF 6

WO# 174545

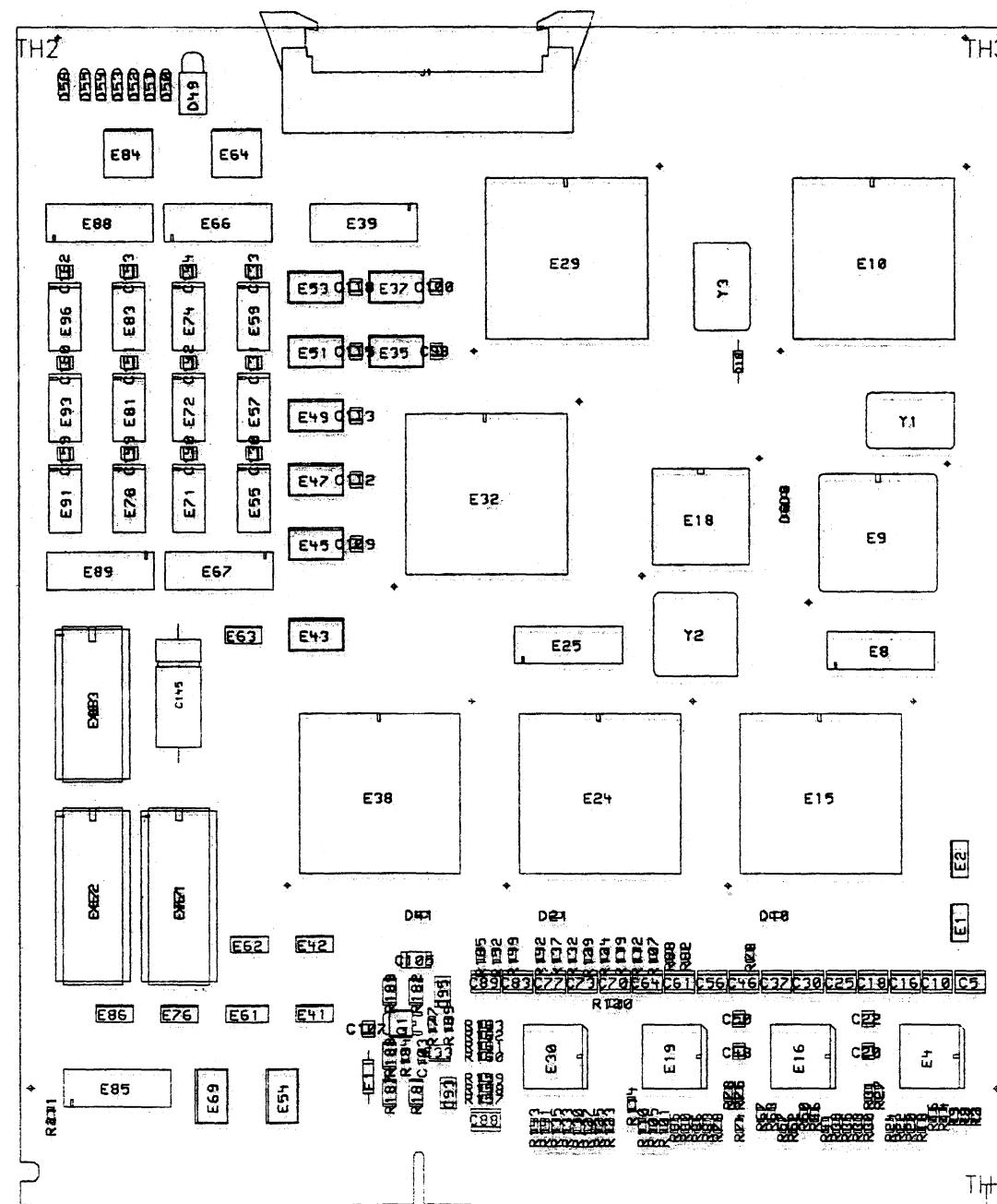
VIEWED FROM SIDE 1
COMPONENT SIDE



PRELIMINARY

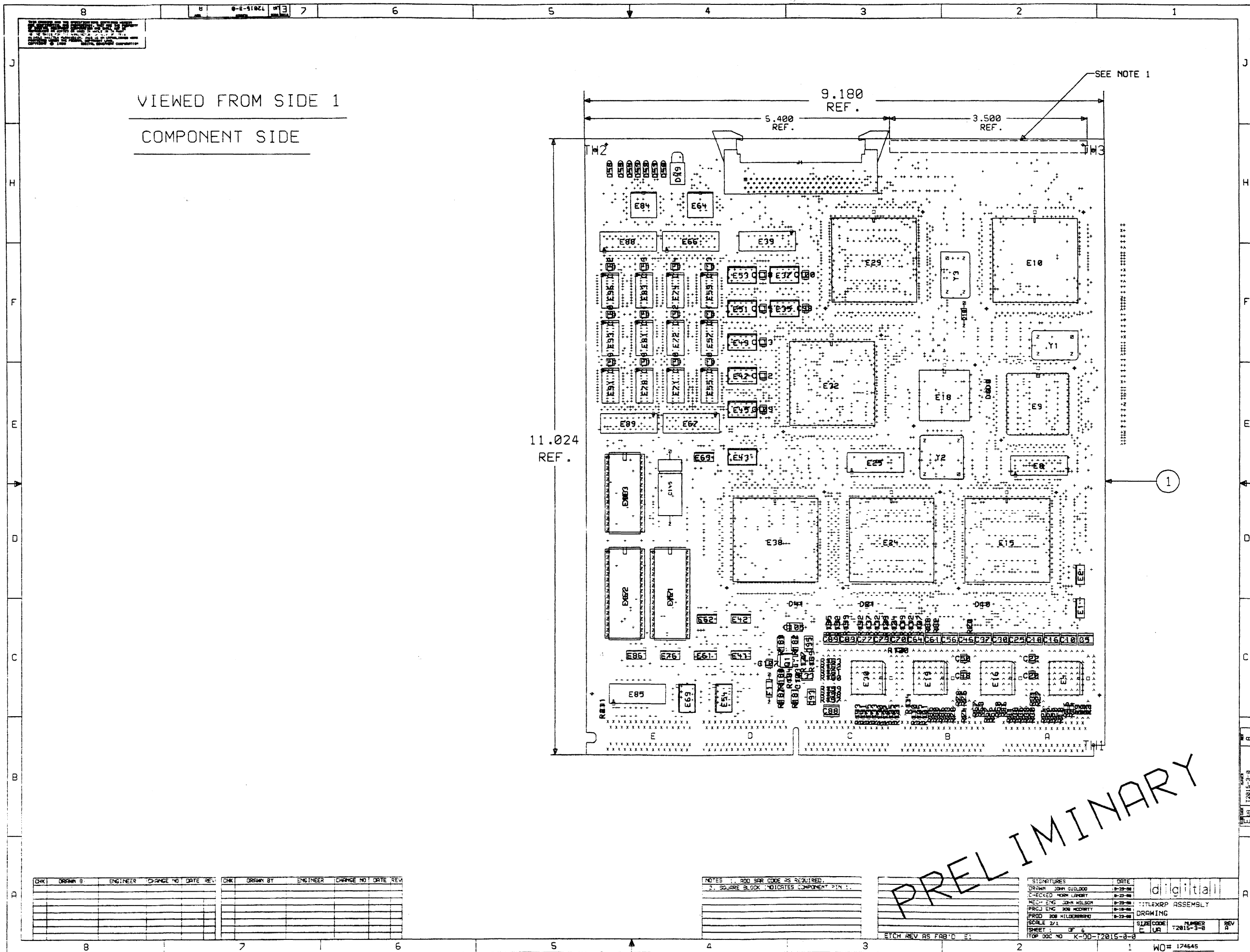
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XRP ASSEMBLY	EUA	1
DRAWING	T2015-3-0	a
SCALE 3/4"		
	SHEET 3 OF 5	
	WQ# 174645	

VIEWED FROM SIDE 1
COMPONENT SIDE



PRELIMINARY

TITLE		DOCUMENT NUMBER	
XRP ASSEMBLY	E UA	T2015-3-0	REV a
DRAWING	SCALE 3/1	SHEET 3 OF 6	
		WO# 174645	



VIEWED FROM SIDE 1
 COMPONENT SIDE

9.180 REF.
 5.400 REF.
 3.500 REF.
 11.024 REF.

SEE NOTE 1

1

PRELIMINARY

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV	CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES:
 1. ADD SQR CODE AS REQUIRED.
 2. SQUARE BLOCK INDICATES COMPONENT PIN 1.

SIGNATURES		DATE	digital
DRAWN	JOHN GUILD	8-23-08	
CHECKED	JOHN GUILD	8-23-08	
MECH. ENG.	JOHN WILSON	8-23-08	
PROJ. ENG.	JOHN WILSON	8-18-08	
PROD.	JOHN WILSON	8-23-08	
SCALE	2/1		
SHEET	OF 6		
TOP DOC NO	K-00-T2015-8-8		
SIZE	CODE	NUMBER	REV

ETCH REV AS FAB'D E1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1		50-17457-01		CIRCUIT DRILL AND ETCH	1	
2	2		10-20446-16	E	1000 MFD 10V +/-20% ALU	1	C145
3	3		10-24051-03	A	15 PFD 50V +/- 5% NPO CE	6	C24,C27,C32,C34,C35,C41
4	4		10-24051-17	A	220 PFD 50V +/- 5% NPO CE	1	C72
5	5		10-24052-01	A	1000 PFD 50V +/-10% X7R CE	1	C103
6	6		10-24053-07	A	0.047MFD 50V +/-20% Z5U CE	2	C121,C124
7	7		10-24053-12	A	0.22 MFD 50V +/-20% Z5U CE	107	C1-C4,C7-C9,C12-C15,C20-C23, CONT C28,C29,C36,C40,C42-C44, CONT C48-C55,C58-C60,C63,C66-C69, CONT C79-C81,C85-C87,C91,C92, CONT C96-C102,C107-C120,C122,C123, CONT C125-C144,C146-C163
8	8		10-24053-18	A	1.0 MFD 25V +/-20% Z5U CE	33	C5,C6,C10,C11,C16-C19,C25,C26, CONT C30,C31,C37,C38,C46,C47,C56, CONT C57,C61,C62,C64,C65,C70,C71, CONT C73,C74,C77,C78,C83,C84,C88-C90
9	9		10-24455-25	A	47 MFD 10V +/-10% CHI	3	C93,C95,C105
10	10		11-14117-00		PIV= 40 IO= 75 A -4N5 1N4152	1	D16
11	11		11-14136-01	A	LED 6.5MA 5V 1.2MCD	7	D50-D56
12	12		11-17373-02	C	LED ASSY,YELLOW	1	D49
13	13		11-28837-01	A	SCHOTTKY DIODE,SOT-23,DUAL	47	D1-D15,D17-D48
14	14		12-29576-02	A	PCB HEADER 80POS(2X40).050CC 90D	1	J1
15	15		12-10929-06	K	FUSE PICO 2.0 A 125V AXIAL LEA	1	F1
16	16		12-15006-17	A	SKT,IC 28PIN DIP TIN SOLD	1	XE98
17	17		12-15006-25	A	SKT,IC 32PIN DIP TIN SOLD	2	XE77,XE97
18	18		12-23208-03	A	SOCKET,PIN GRID ARRAY,SOLDER TYP	4	
19	19		13-23825-05	A	15.0 .25 W 5.0 % CHIP	2	R138,R139
20	20		13-23825-08	A	20.0 .25 W 5.0 % CHIP	1	R183
21	21		13-23825-22	A	75.0 .25 W 5.0 % CHIP	6	R36,R43,R49,R54,R60,R64
22	22		13-23825-24	A	91.0 .25 W 5.0 % CHIP	1	R170

REVISION HISTORY

ENG	ECO NUMBER	REV
BM	PCA06	A

SECTION/VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]

KPL MODULE FORMAT SECTION A OF A DRN: C. HARTEL
 DATE: 22-NOV-88
 CHK'D: N. LANDRY
 DATE: 22-NOV-88
 DES.ENG: P. SULLIVAN
 DATE: 22-NOV-88
 RESP.ENG.: B. MCCARTY
 DATE: 22-NOV-88
 MFG.ENG: L. STANLEY
 DATE: 22-NOV-88

D I G I T A L
 TITLE PARTS LIST
 PARTS LIST
 XRP MODULE (T2015)
 DOCUMENT NUMBER
 SIZE CODE NUMBER REV
 K PL T2015-3-DBP A
 RELEASE DATE:
 RELEASE STATUS: UNDER CHANGE

BASIC PART NUMBER: N/ T2015 ASSEMBLY NUMBER: E-WA-T2015-3-0 TOP DOCUMENT NUMBER: K-DD-T2015-0-0 EDIT # 34
 FILE NAME: K_PL_T2015_3.PLS

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PARTS LIST

SHEET A2 OF A3

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
23	23	13-23825-25	A	100.0 .25 W 5.0 % CHIP	6	R1,R175,R176,R191,R192,R199
24	24	13-23825-31	A	180.0 .25 W 5.0 % CHIP	7	R38,R44,R56,R155,R168,R172,R178
25	25	13-23825-38	A	360.0 .25 W 5.0 % CHIP	6	R37,R45,R55,R154,R167,R171
26	26	13-23825-39	A	390.0 .25 W 5.0 % CHIP	5	R184,R204,R205,R208,R209
27	27	13-23825-41	A	470.0 .25 W 5.0 % CHIP	1	R207
28	28	13-23825-49	A	1.0 K .25 W 5.0 % CHIP	36	R4,R5,R11-R13,R48,R59,R61,R66, CONT R70,R71,R85,R88,R89,R94,R97, CONT R99,R108,R116,R120,R122,R127, CONT R130,R150,R174,R180,R186,R194, CONT R195,R197,R200,R202,R203,R206, CONT R210,R211 R121,R173,R179
29	29	13-23825-56	A	2.00 K .25 W 5.0 % CHIP	3	R73,R129,R165
30	30	13-23825-65	A	4.70 K .25 W 5.0 % CHIP	3	R92,R98,R107,R112,R119,R124, CONT R132,R137,R142,R198
31	31	13-23827-01	A	10.0 .25 W 1.0 % CHIP	10	R7,R27,R29,R75,R77,R125,R126, CONT R133,R135,R141,R143
32	32	13-23827-30	A	20.0 .25 W 1.0 % CHIP	11	R2,R3,R8-R10,R14-R26,R28, CONT R30-R35,R39-R42,R46,R47, CONT R50-R53,R57,R58,R62,R63,R67, CONT R68,R72,R74,R76,R78-R80,R83, CONT R84,R86,R87,R90,R91,R95,R96, CONT R101,R102,R105,R106,R110,R111, CONT R113,R114,R117,R118,R123,R128, CONT R131,R134,R136,R144,R145,R148, CONT R149,R151,R156-R164,R166,R193, CONT R196
33	33	13-23827-47	A	30.1 .25 W 1.0 % CHIP	87	R6,R65,R69,R93,R100,R140,R146, CONT R147,R152,R153,R185
34	34	13-23827-68	A	49.9 .25 W 1.0 % CHIP	11	R201 CONT R81,R82,R103,R104,R109,R115, CONT R190
35	35	13-23828-41	A	261.0 .25 W 1.0 % CHIP	1	R181,R187
36	36	13-23828-68	A	499.0 .25 W 1.0 % CHIP	7	R182,R188,R189 R177 R169
37	37	13-28315-01	A	4.3 1.5 W 5.0 % CHIP	2	Q1
38	38	13-28315-03	A	7.5 1.5 W 5.0% CHIP	3	Y1
39	39	13-28316-03	A	3.24 K .125W 0.5 % CHIP	1	Y3
40	40	13-28316-04	A	10.0 K .125W 0.5 % CHIP	1	Y2
41	41	15-28646-01		PNP TRANS D-PAK 80V X.XXW	1	E1
42	42	18-14057-00	A	OSCILLATOR, XTAL 40.000 MHZ	1	E62
43	43	18-18800-01	A	OSCILLATOR,XTAL 25.6KHZ	1	E63
44	44	18-28781-04	A	OSCILLATOR,XTAL,CMOS 143.000	1	E76
45	45	19-10535-01	A	74S05 HEX INV,OPEN COL IN	1	E42
46	46	19-20460-02	A	74LS12 NAND GATE 3-IN OPEN	1	E86
47	47	19-21306-02	A	74F02D NOR GATE,QUAD,2-IN S	1	E2
48	48	19-21307-02	A	74F04 HEX INVERTER SURFACE	1	E61
49	49	19-21308-02	A	74F08 AND GATE,QUAD,2-IN	1	E33
50	50	19-21312-02	A	74F32 OR GATE,QUAD,2-IN	1	E41
51	51	19-21314-02	A	74F74 FF-D,DUAL SOIC	1	
52	52	19-21329-03	A	74F253 MUX,DUAL,4-IN TRISTA	1	
53	53	19-22024-04	A	PREC. VOLT REF, 36V	1	
54	54	19-26844-01	A	74F132 NAND GATE,QUAD,2-IN,	1	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							PARTS LIST XRP MODULE (T2015)		K	PL	T3015-3-D8P	A

PRELIMINARY

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PARTS LIST

SHEET A3 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
55	55		19-28764-01	A	74ALS845 BUS INT D TYPE LATCH	2	E64, E84
56	56		19-28985-01		R/C NET 15.0 - 9 75.0 - 9	26	E3, E6-E8, E11-E14, E21-E23, CONT E25-E28, E39, E40, E65-E68, E85, CONT E87-E90
57	57		21-25087-01		DC520 PROCESSOR INSTRUCTION EXEC	1	E29
58	58		21-25088-01	A	DC521 CLOCK CHIP	1	E18
59	59		21-25090-01	A	DC523 FLOATING POINT UNIT	1	E10
60	60		21-26702-02	A	DC530 XMI INTERFACE CHIP (XLATC	7	E4, E5, E16, E17, E19, E20, E31
61	61		21-26703-01		DC531 XMI CLOCK DECODER CHIP (XC	1	E30
62	62		21-27274-01	A	DC549 RSSC CMOS 1	1	E9
63	63		21-27307-01	A	DC551 CMOS2, STD CELL RIGEL	1	E38
64	64		21-27308-01	A	DC550 CMOS2, STD CELL RIGEL	2	E15, E24
65	65		21-29572-01		DC592 CACHE CONTROLLER	1	E32
66	66		21-29596-01		RAM, STATIC CMOS. BI CMOS 16KX4 15	24	E55-E60, E70-E75, E78-E83, E91-E96
67	67		21-30116-01	A	74BCT244DW OCTAL BUFFER, BICMOS	17	E34-E37, E43-E54, E69
68	68		N/23-000E9-01		27010 128K X 8 EPROM, 32 PIN DIP	2	E77, E97
69	69		N/23-000N5-01		X28256 32K X 8 EEPROM, 28 PIN DI	1	E98

1 GEN: THE FOLLOWING ARE SPARE CAPACITOR LOCATIONS: C33, C39, C45, C75, C76, C82, C94, C104, C106

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							PARTS LIST XRP MODULE (T2015)		K	PL	T2015-3-DBP	A

PRELIMINARY

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS						
				A1	B1	B2	C1	C2	D3	E4
K-PC-T2015-0-DBV	-	T2015-00	XRP MODULE	A	B		C			
K-PL-T2015-0-DBP	3		PC DESIGN DATABASE	A	B		C			
D-UA-T2015-0-0	8		XRP PARTS LIST	A	B		C			
K-IF-T2015-0-0	1		XRP UNIT ASSEMBLY	A	B		C			
K-ST-T2015-0-0	1		PLO DATA INDEX	A	B		C			
			BUILD DATA INDEX							
K-PC-T2015-1-DBV	-		PC DESIGN DATABASE			A		B		
K-PL-T2015-1-DBP	3		XRP PARTS LIST			A		B		
D-UA-T2015-1-0	9		XRP UNIT ASSEMBLY			A		B		
K-IF-T2015-1-0	1		PLO DATA INDEX			A		B		
K-ST-T2015-1-0	1		BUILD DATA INDEX			A		B		
K-PC-T2015-2-DBV	-		PC DESIGN DATABASE						A	
K-PL-T2015-2-DBP	3		XRP PARTS LIST						A	
E-UA-T2015-2-0	7		XRP UNIT ASSEMBLY						A	
K-IF-T2015-2-0	1		PLO DATA INDEX						A	

NOTES:

REVISION HISTORY	REV	A	B	D	D	D	E	F
	NO	1	2	4	4	4	5	6
	DATE	6/8/88	7/8/88	8/8/88	8/8/88	8/8/88	10/8/88	1/8/89
	INIT							
	DESCRIPTION							

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DRN: C. HARTEL	DATE: 11/88	d	+	g	i	t	a	l
CHK'D: N. LANDRY	DATE: 11/88	TITLE XRP MODULE (T2015)						
DES.ENG.: P. SULLIVAN	DATE: 11/88	SHEET	1	OF	4	EDIT: 27		
RESP.ENG.: B. MCCARTY	DATE: 11/88	DOCUMENT NUMBER						
		DD FILENAME: K_DD_T2015_0_0_F.DDF						
MFG.ENG.: L. STANLEY	DATE: 11/88	SIZE	CODE	NUMBER	REV			
		K	DD	T2015-0-0	F			

DRAWING NO.	NO.SHTS	PART NO.	DESCRIPTION	REVISIONS			
K-ST-T2015-2-0	1		BUILD DATA INDEX				A
K-PC-T2015-3-DBV	-		PC DESIGN DATABASE				A
K-PL-T2015-3-DBP	3		XRP PARTS LIST				A
E-UA-T2015-3-0	6		XRP UNIT ASSEMBLY				A
K-IF-T2015-3-0	1		PLO DATA INDEX				A
K-ST-T2015-3-0	1		BUILD DATA INDEX				A
K-CS-T2015-0-DBX	-		CS DATABASE	A	B	C	
K-CS-T2015-0-XR01	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR02	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR03	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR04	1		XRP CPU CIRCUIT SCHEMATICS	A	B	B	
K-CS-T2015-0-XR05	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR06	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR07	1		XRP CPU CIRCUIT SCHEMATICS	A	A	B	
K-CS-T2015-0-XR08	1		XRP CPU CIRCUIT SCHEMATICS	A	A	B	
K-CS-T2015-0-XR09	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR10	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR11	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR12	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR13	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR14	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR15	1		XRP CPU CIRCUIT SCHEMATICS	A	A	B	
K-CS-T2015-0-XR16	1		XRP CPU CIRCUIT SCHEMATICS	A	B	B	
K-CS-T2015-0-XR17	1		XRP CPU CIRCUIT SCHEMATICS	A	A	B	
K-CS-T2015-0-XR18	1		XRP CPU CIRCUIT SCHEMATICS	A	A	B	
K-CS-T2015-0-XR19	1		XRP CPU CIRCUIT SCHEMATICS	A	A	B	
K-CS-T2015-0-XR20	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR21	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR22	1		XRP CPU CIRCUIT SCHEMATICS	A	A	B	
K-CS-T2015-0-XR23	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR24	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR25	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR26	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR27	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-0-XR28	1		XRP CPU CIRCUIT SCHEMATICS	A	A	A	
K-CS-T2015-1-DBX	-		CIRCUIT SCHEMATICS DATABASE		A	B	
K-CS-T2015-1-XR01	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR02	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR03	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR04	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR05	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR06	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR07	1		XRP CPU CIRCUIT SCHEMATICS		A	B	
K-CS-T2015-1-XR08	1		XRP CPU CIRCUIT SCHEMATICS		A	B	
K-CS-T2015-1-XR09	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR10	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR11	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR12	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR13	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR14	1		XRP CPU CIRCUIT SCHEMATICS		A	A	
K-CS-T2015-1-XR15	1		XRP CPU CIRCUIT SCHEMATICS		A	B	

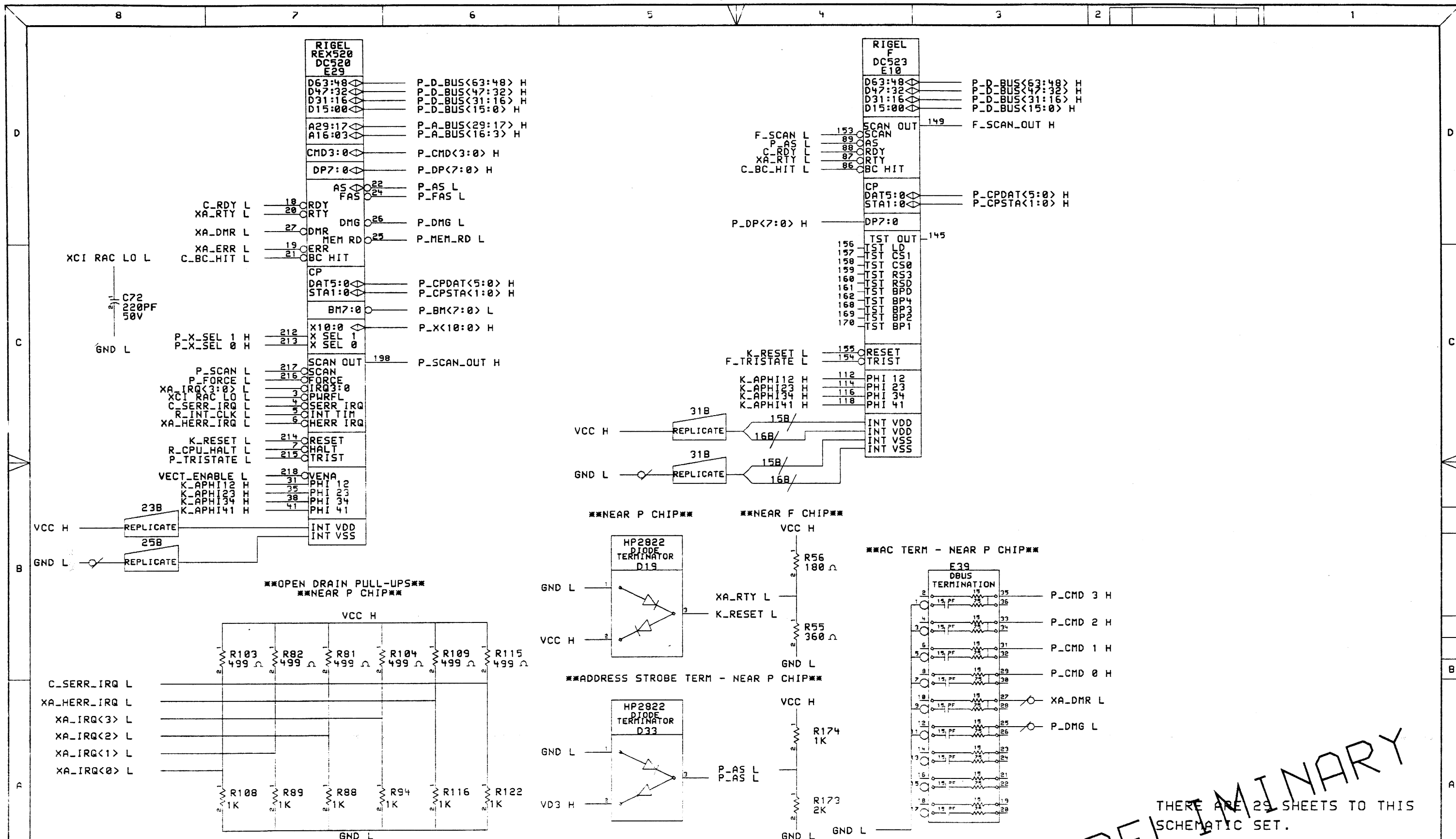
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DRAWING NO.	NO.SHTS	PART NO.	DESCRIPTION	REVISIONS
K-CS-T2015-1-XR16	1		XRP CPU CIRCUIT SCHEMATICS	A A
K-CS-T2015-1-XR17	1		XRP CPU CIRCUIT SCHEMATICS	A B
K-CS-T2015-1-XR18	1		XRP CPU CIRCUIT SCHEMATICS	A B B
K-CS-T2015-1-XR19	1		XRP CPU CIRCUIT SCHEMATICS	A B B
K-CS-T2015-1-XR20	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR21	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR22	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR23	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR24	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR25	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR26	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR27	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR28	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-1-XR29	1		XRP CPU CIRCUIT SCHEMATICS	A B A
K-CS-T2015-2-DBX	-		CS DATABASE	A
K-CS-T2015-2-XR01	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR02	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR03	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR04	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR05	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR06	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR07	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR08	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR09	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR10	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR11	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2105-2-XR12	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR13	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR14	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR15	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR16	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR17	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR18	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR19	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR20	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR21	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR22	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR23	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR24	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR25	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR26	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR27	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR28	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-2-XR29	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-3-DBX	-		CIRCUIT SCHEMATICS DATABASE	A
K-BD-T2015-3-XR01	1		XRP BLOCK DIAGRAM	A
K-CS-T2015-3-XR01	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-3-XR02	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-3-XR03	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-3-XR04	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-3-XR05	1		XRP CPU CIRCUIT SCHEMATICS	A
K-CS-T2015-3-XR06	1		XRP CPU CIRCUIT SCHEMATICS	A

d	i	g	i	t	a	1	TITLE XRP MODULE (T2015)	SHEET 3 OF 4	SIZE K	CODE DD	DOCUMENT NUMBER T2015-0-0	REV F
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DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS						
K-CS-T2015-3-XR07	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR08	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR09	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR10	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR11	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR12	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR13	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR14	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR15	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR16	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR17	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR18	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR19	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR20	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR21	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR22	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR23	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR24	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR25	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR26	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR27	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR28	1		XRP CPU CIRCUIT SCHEMATICS							A
K-CS-T2015-3-XR29	1		XRP CPU CIRCUIT SCHEMATICS							A
K-DD-50-17457-0-0	1	50-17457-01	DRAWING DIRECTORY ETCHED CIRCUIT BOARD	A	B	C	B	C	D	E
				A1	B1	C1	B1	C1	D1	E1

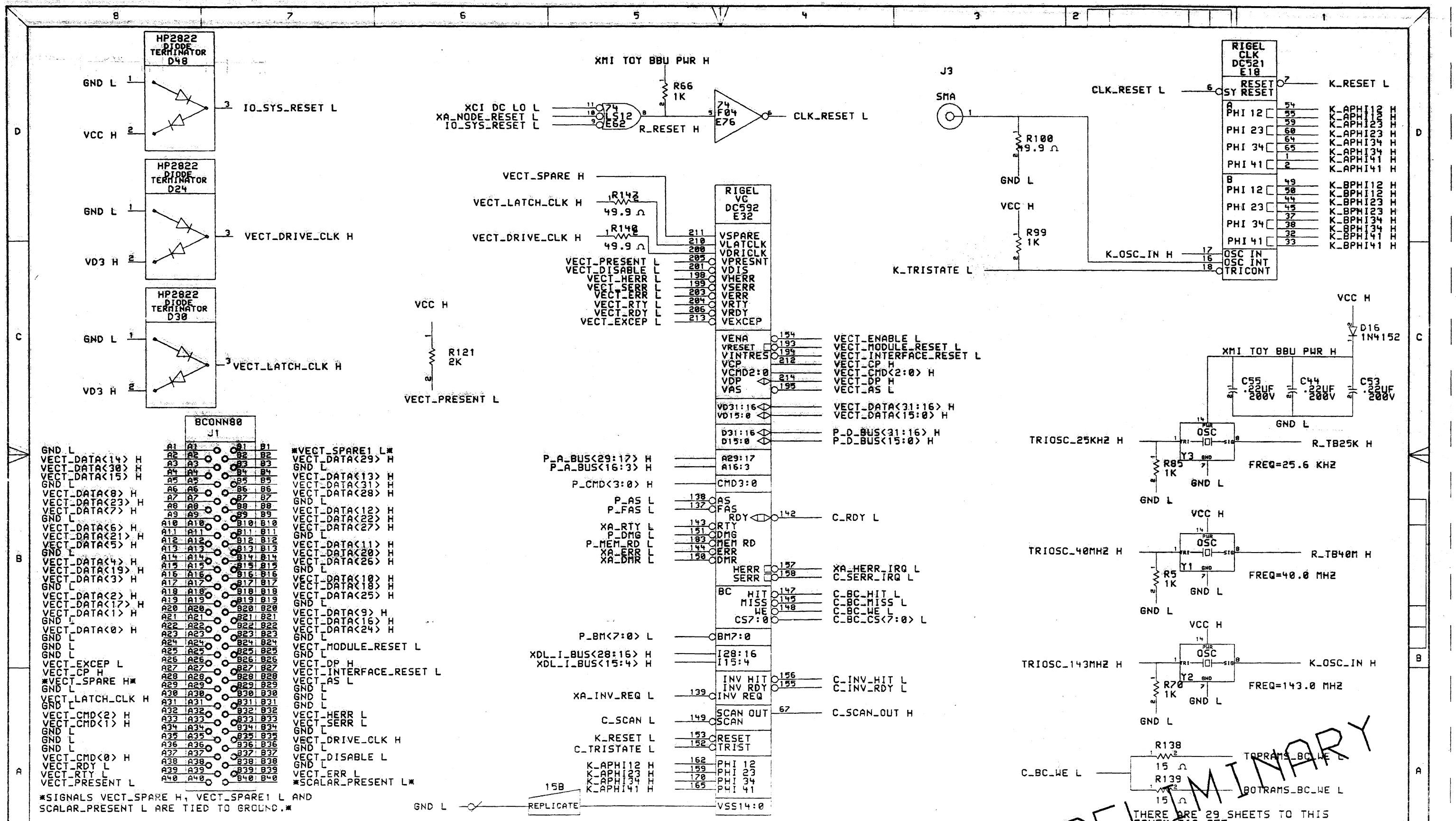
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PRELIMINARY

THERE ARE 29 SHEETS TO THIS SCHEMATIC SET.

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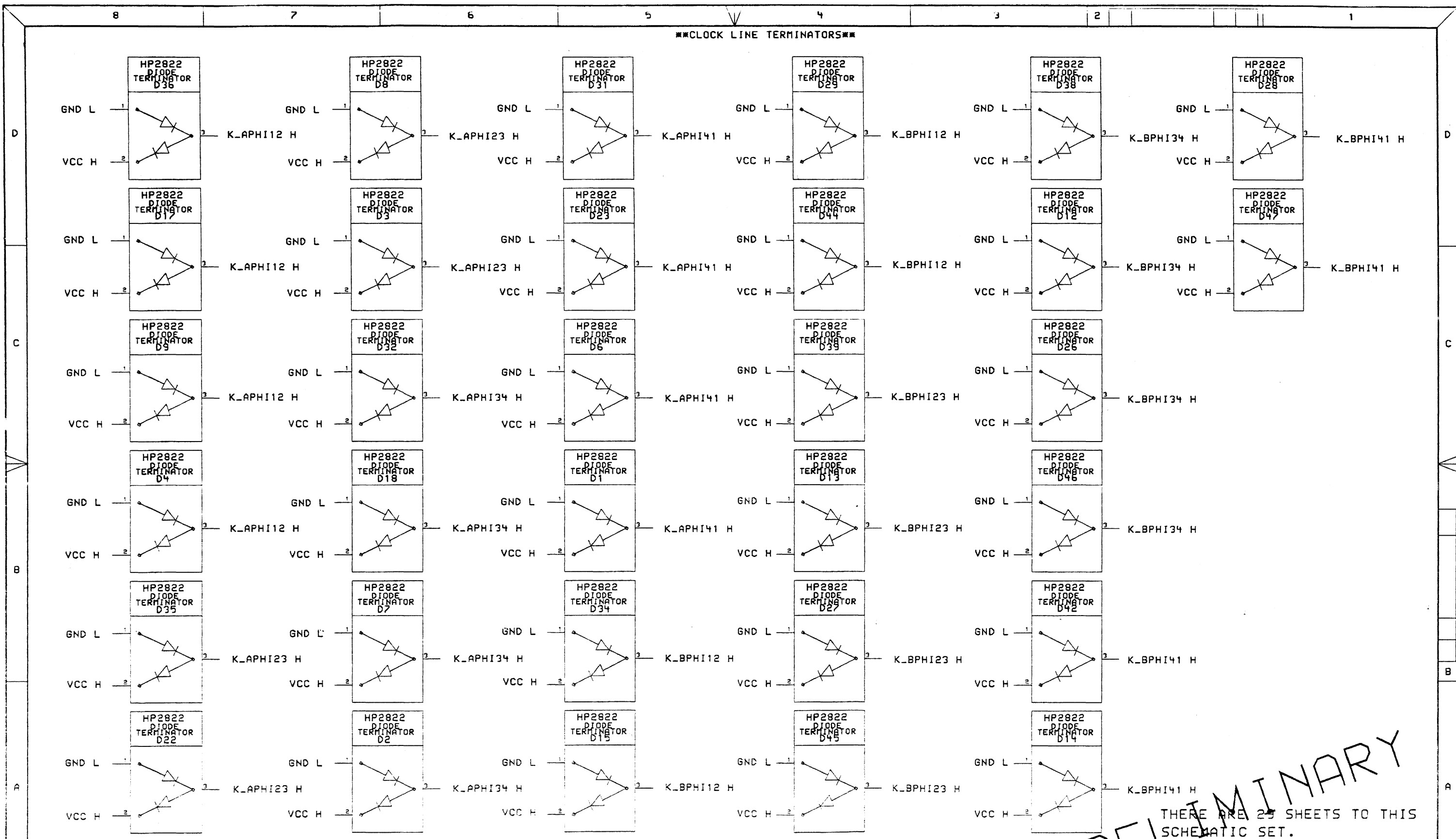


SIGNALS VECT_SPARE H, VECT_SPARE1 L AND SCALAR_PRESENT L ARE TIED TO GROUND.

PRELIMINARY

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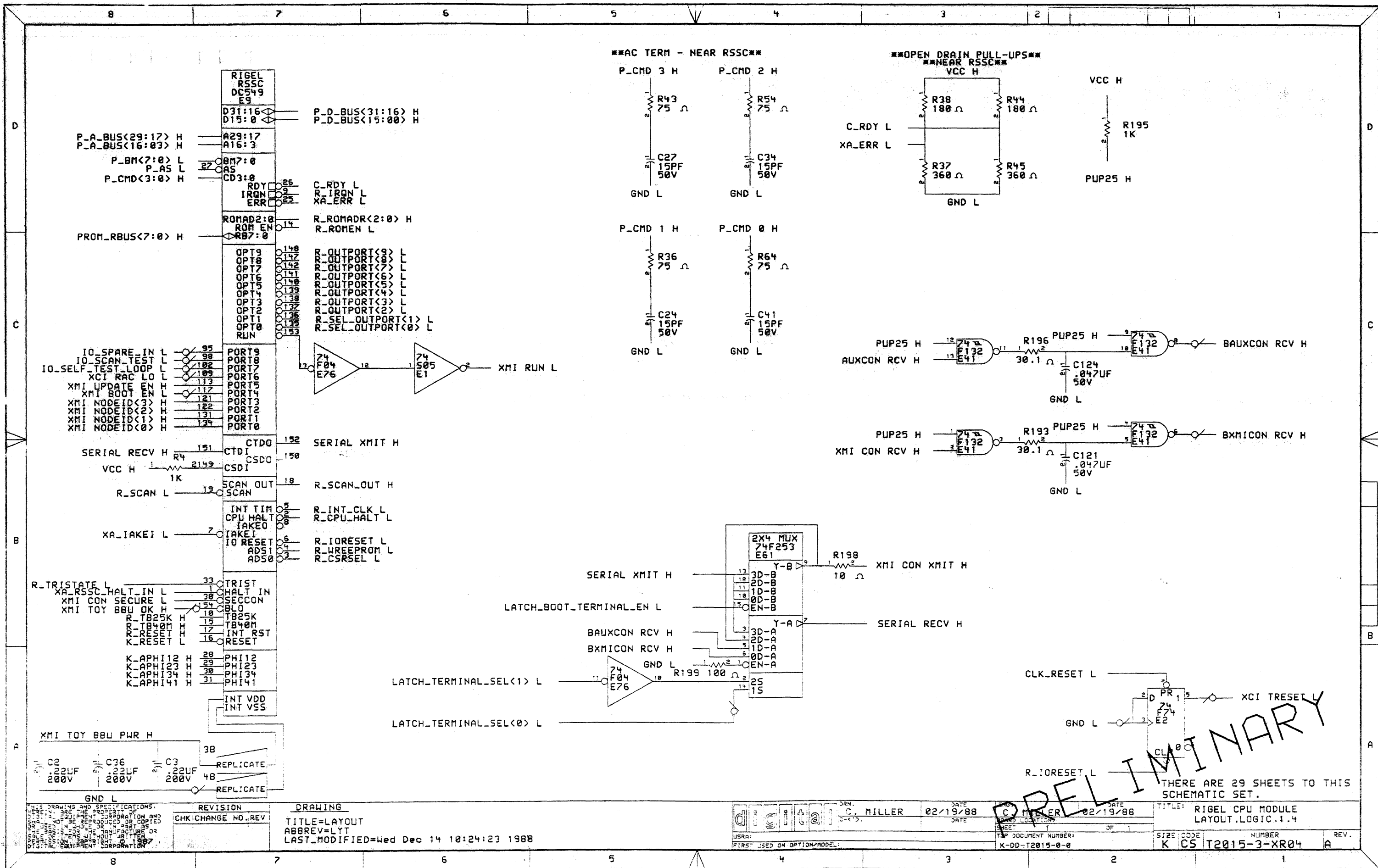
CLOCK LINE TERMINATORS



PRELIMINARY

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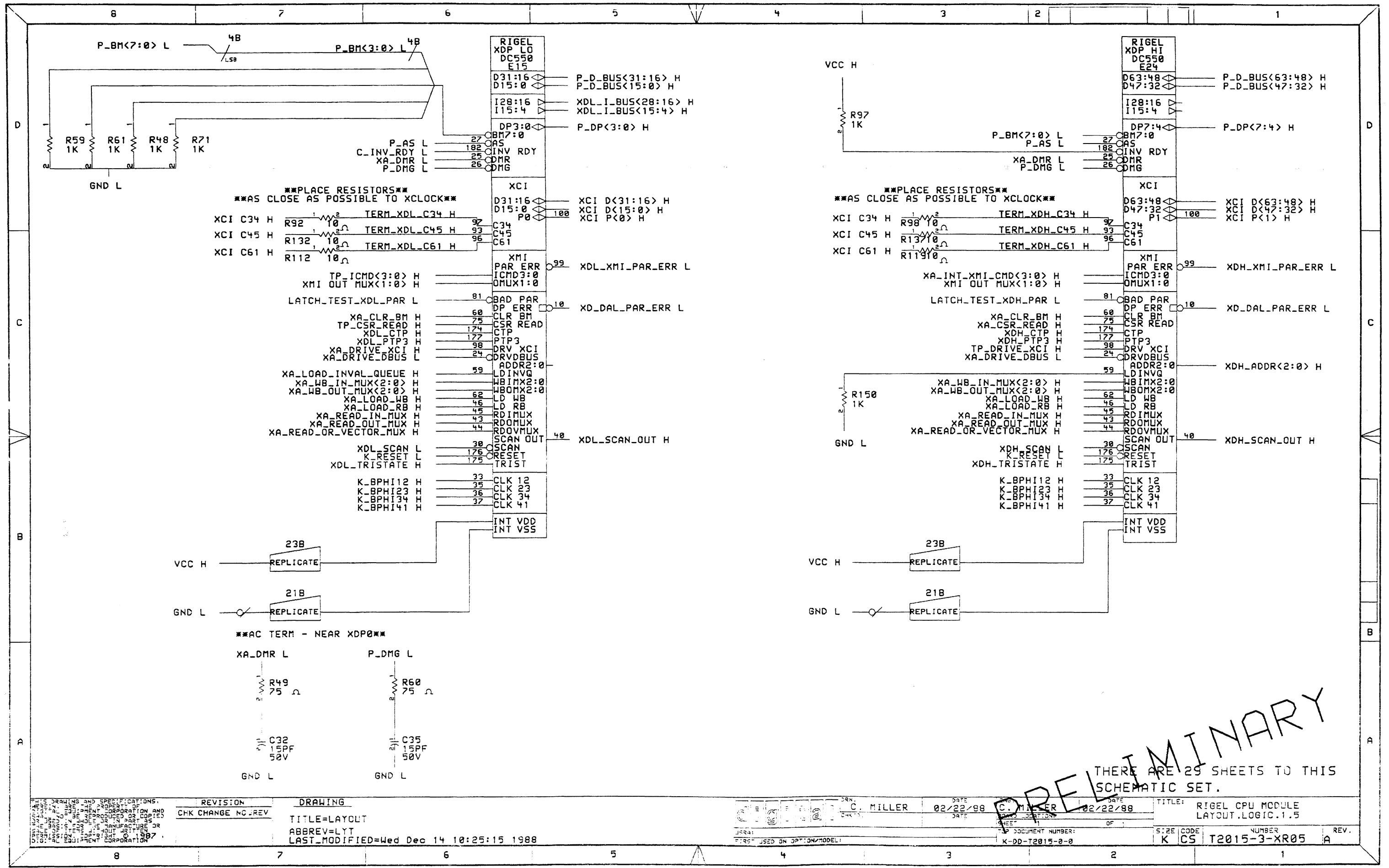
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	USRA:		P. DOCUMENT NUMBER: K-DD-T2015-0-0	SIZE CODE NUMBER REV. K CS T2015-3-XR03 A	
	DIGITAL EQUIPMENT CORPORATION		FIRST USED ON OPTION/MODEL:	DATE:	DATE:
	8 7 6 5 4 3 2 1		8 7 6 5 4 3 2 1		



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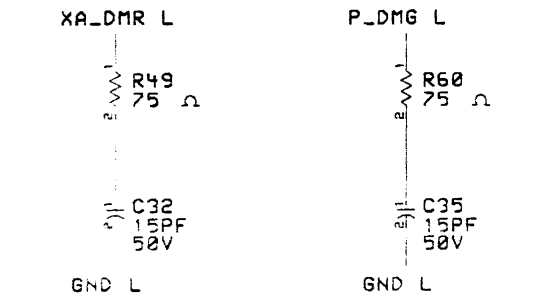
PLACE RESISTORS
 AS CLOSE AS POSSIBLE TO XCKLOCK

XCI C34 H R92 10Ω TERM_XDL_C34 H
 XCI C45 H R132 10Ω TERM_XDL_C45 H
 XCI C61 H R112 10Ω TERM_XDL_C61 H

PLACE RESISTORS
 AS CLOSE AS POSSIBLE TO XCKLOCK

XCI C34 H R98 10Ω TERM_XDH_C34 H
 XCI C45 H R137 10Ω TERM_XDH_C45 H
 XCI C61 H R119 10Ω TERM_XDH_C61 H

AC TERM - NEAR XDP0

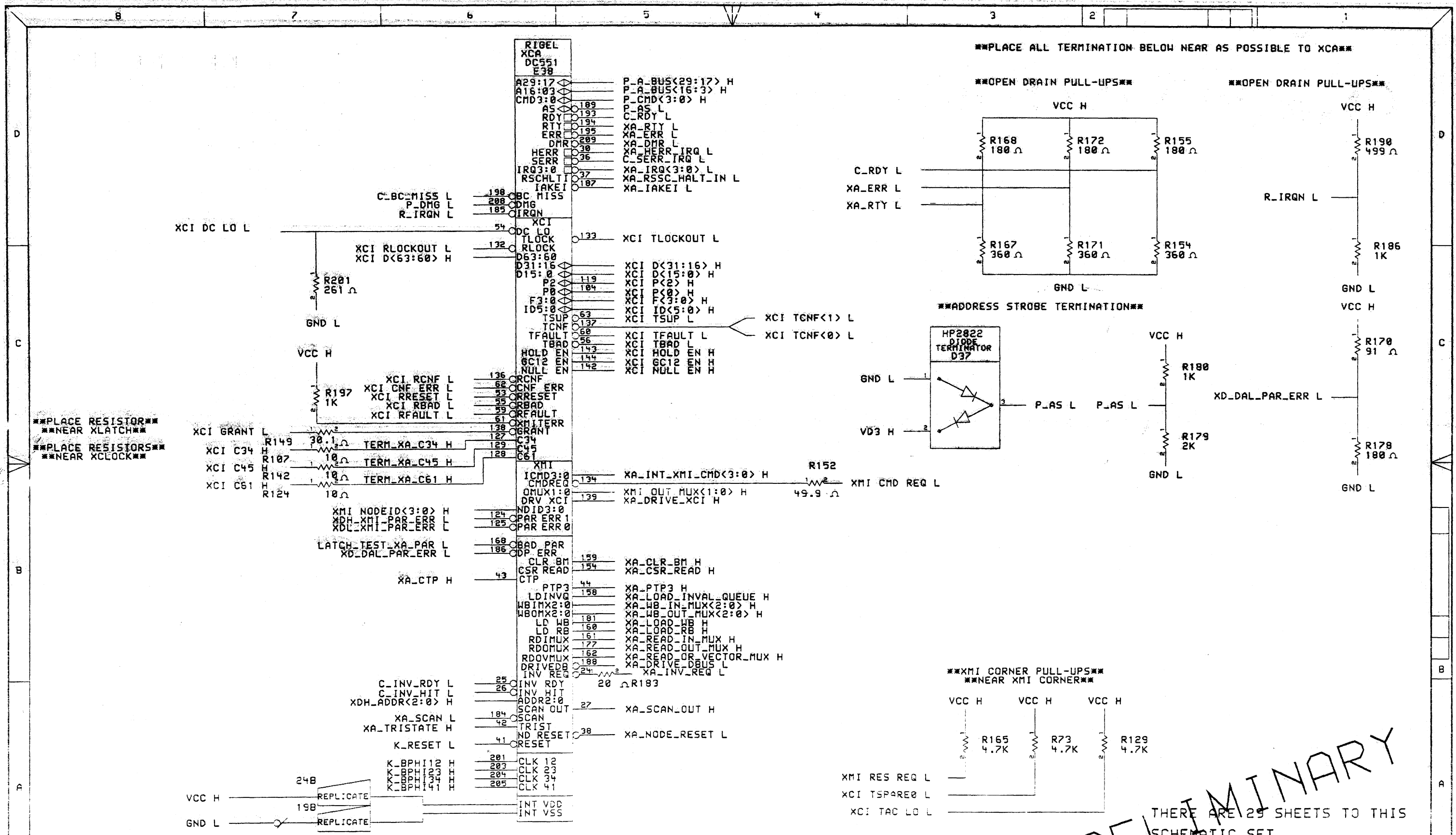


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 DRAWN BY: C. MILLER
 CHECKED BY: C. MILLER
 DATE: 02/22/88

REVISION	DRAWING
CHK CHANGE NO. REV	TITLE=LAYOUT ABBREV=LYT LAST_MODIFIED=Wed Dec 14 10:25:15 1988

DATE	DATE	TITLE:
02/22/88	02/22/88	RIGEL CPU MODULE LAYOUT.LOGIC.1.5
DATE	DATE	SIZE CODE
		K CS
NUMBER	REV.	
T2015-3-XR05	A	

PRELIMINARY
 THERE ARE 29 SHEETS TO THIS SCHEMATIC SET.

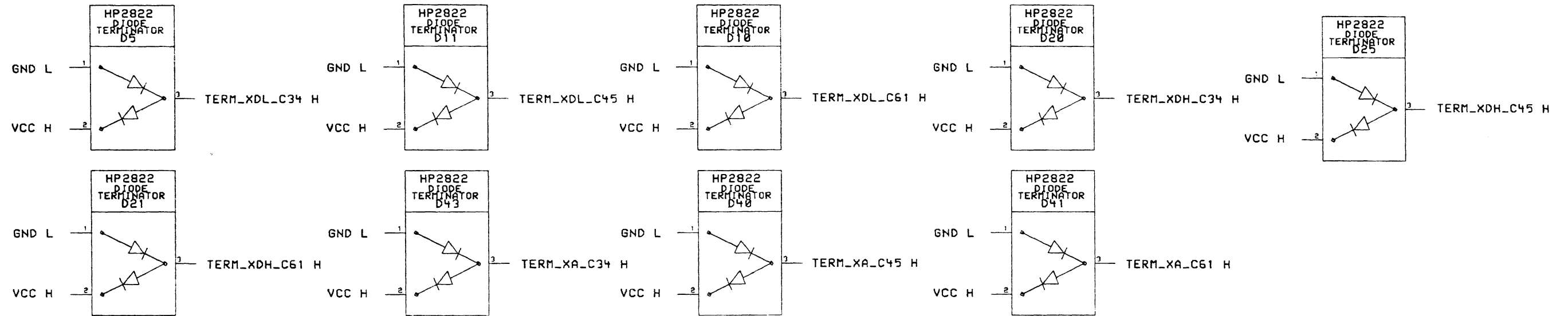


PRELIMINARY

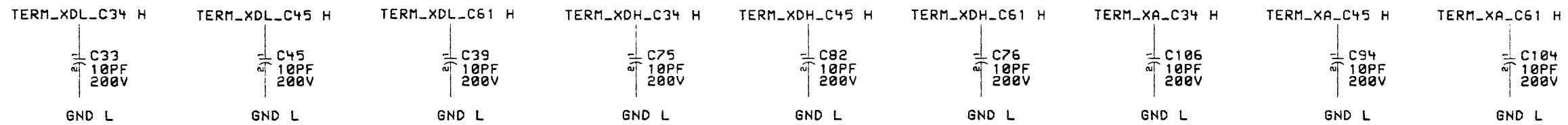
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	USRA: FIRST USED ON OPT:3M/MODEL:	TOP DOCUMENT NUMBER: K-DD-T2015-0-0	SIZE CODE K CS	NUMBER T2015-3-XR06	REV. A	

XCI CLOCK DIODE TERMINATORS
 LOCATE AS CLOSE TO REXMI CHIPS AS POSSIBLE



BALANCING CAPS NOT USED



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REVISION
 CHK/CHANGE NO./REV

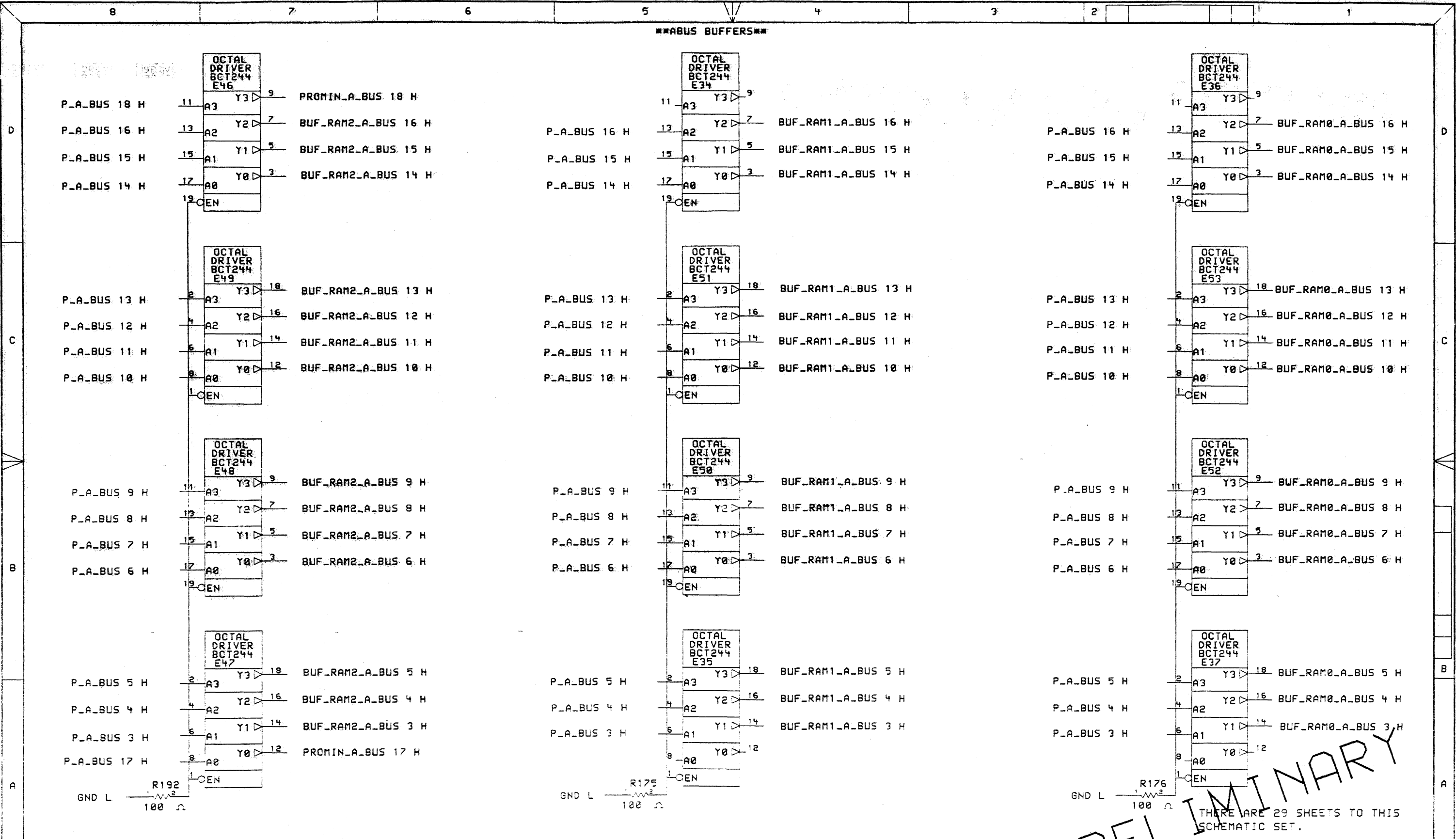
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 LAST_MODIFIED=Wed Dec 14 10:26:30 1988

DATE 02/22/88
 C. MILLER
 DATE 02/22/88
 C. MILLER
 SHEET 1 OF 29
 FIRST USED ON OPTION/MODEL:

DATE 02/22/88
 C. MILLER
 DATE 02/22/88
 SHEET 1 OF 29
 TOP DOCUMENT NUMBER:
 K-DD-T2015-0-0

TITLE: RIGEL CPU MODULE LAYOUT.LOGIC.1.7
 SIZE CODE NUMBER REV.
 K CS T2015-3-XR07 A

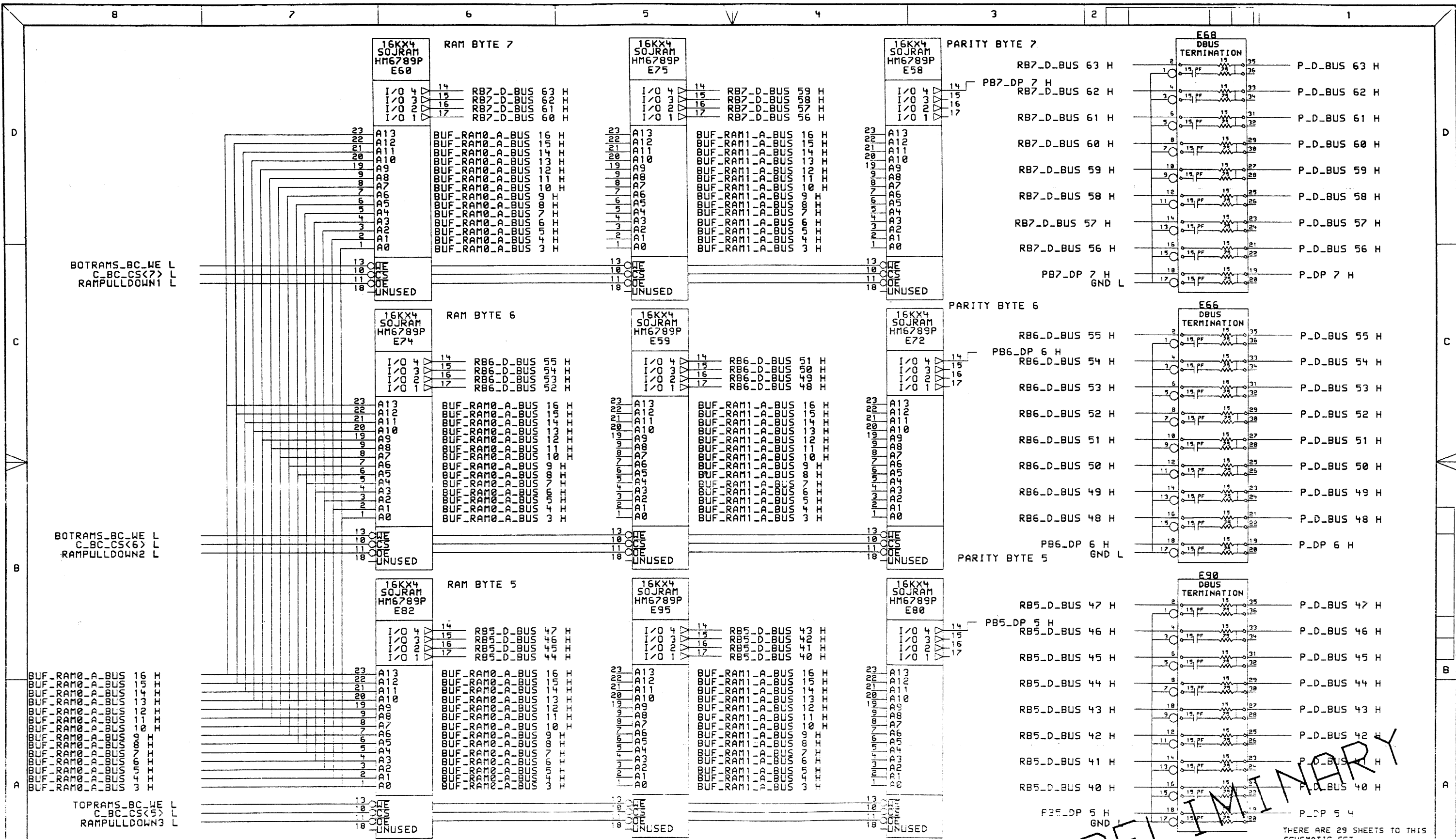
ABUS BUFFERS



PRELIMINARY

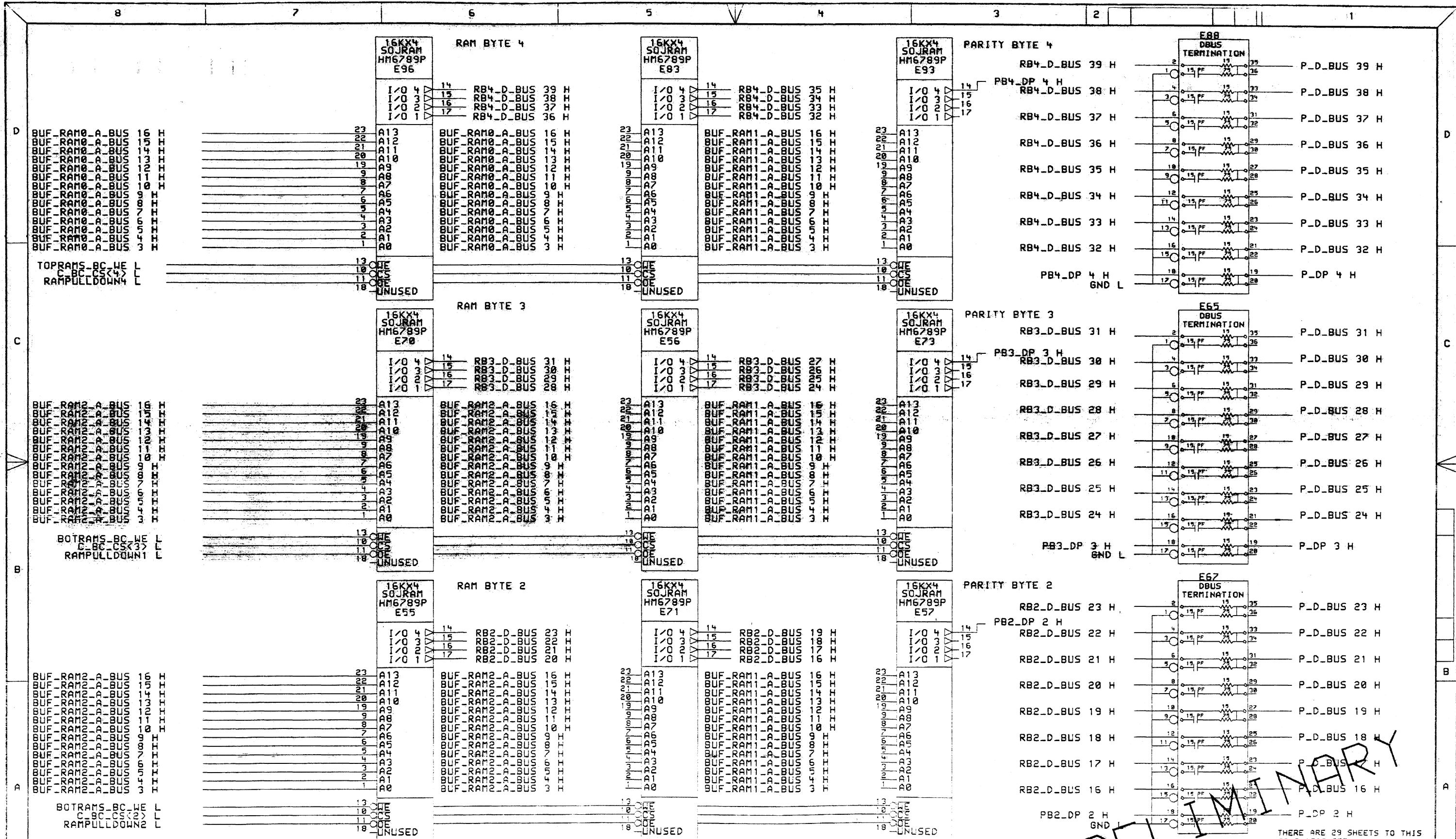
THERE ARE 29 SHEETS TO THIS SCHEMATIC SET.

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PRELIMINARY

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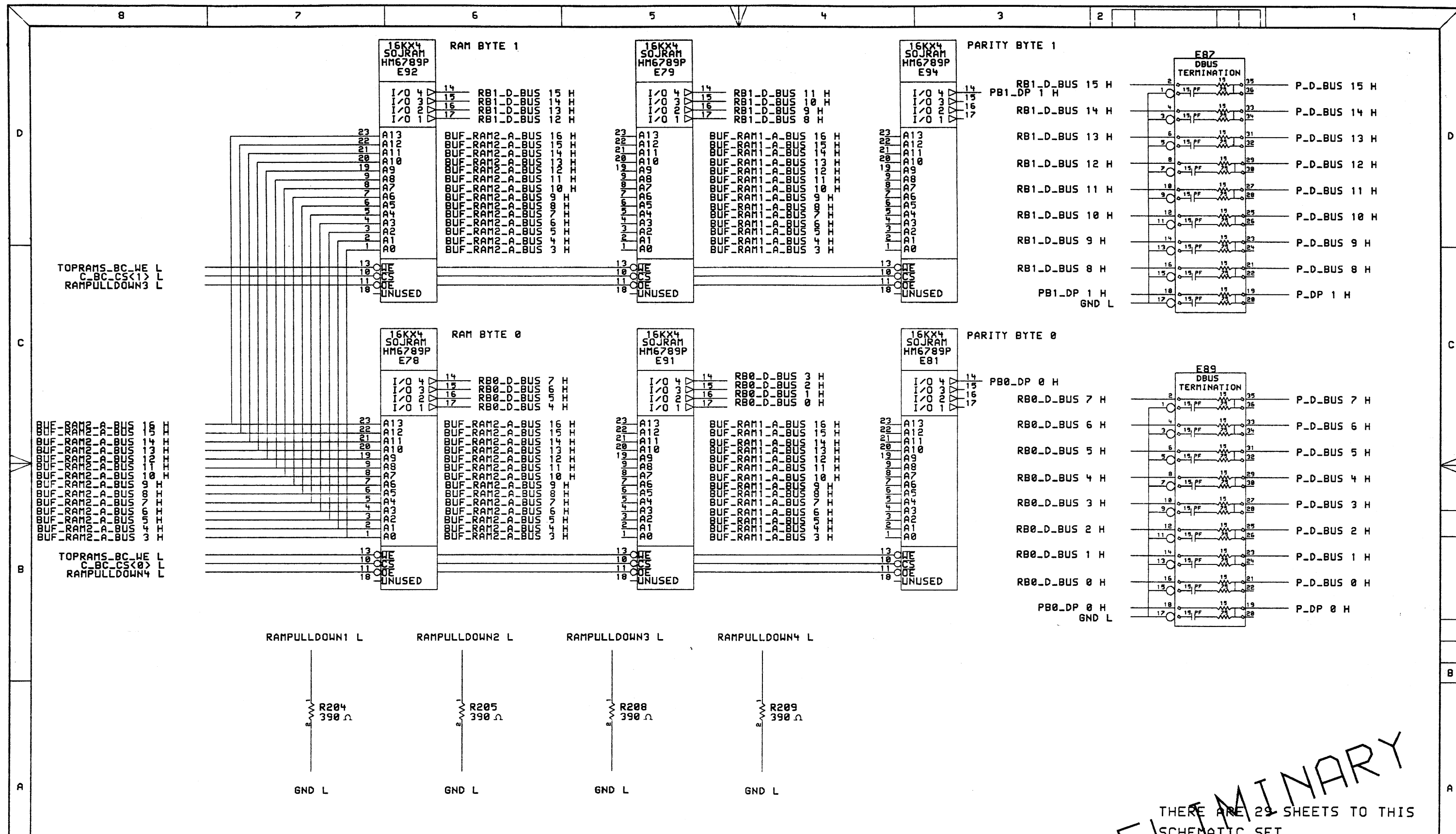
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DESIGNER: C. MILLER	DATE: 02/22/88	DESIGNER: C. MILLER
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USRA: []	DATE: []	USRA: []
FIRST USED ON OPTION/MODEL: []	DATE: []	FIRST USED ON OPTION/MODEL: []
DOCUMENT NUMBER: K-DD-T2015-8-8	OF 1	SIZE CODE: K CS
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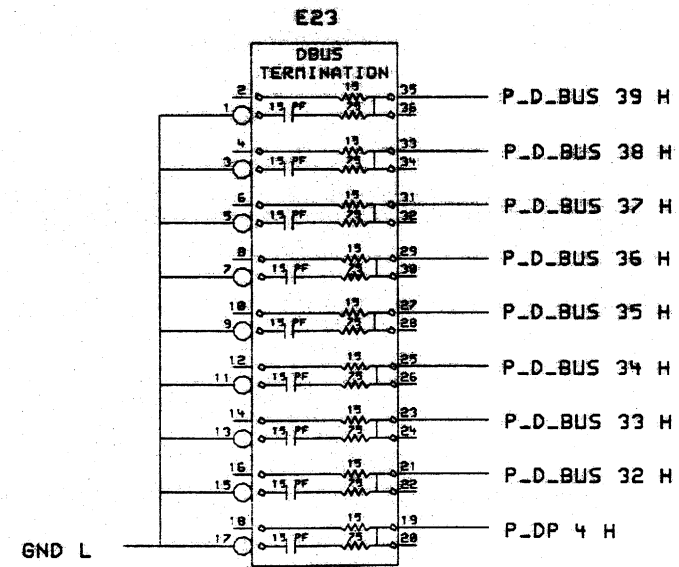
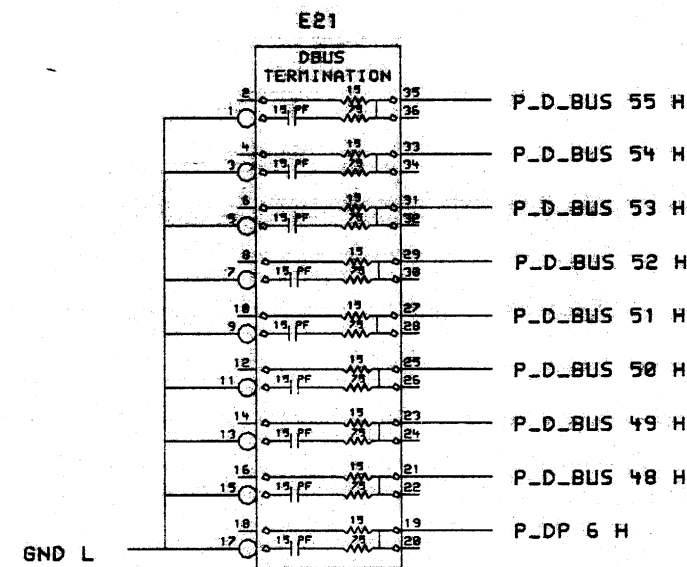
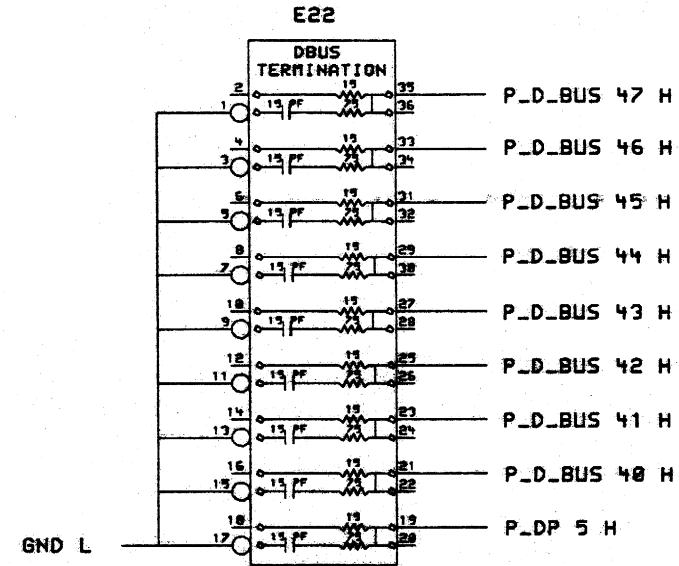
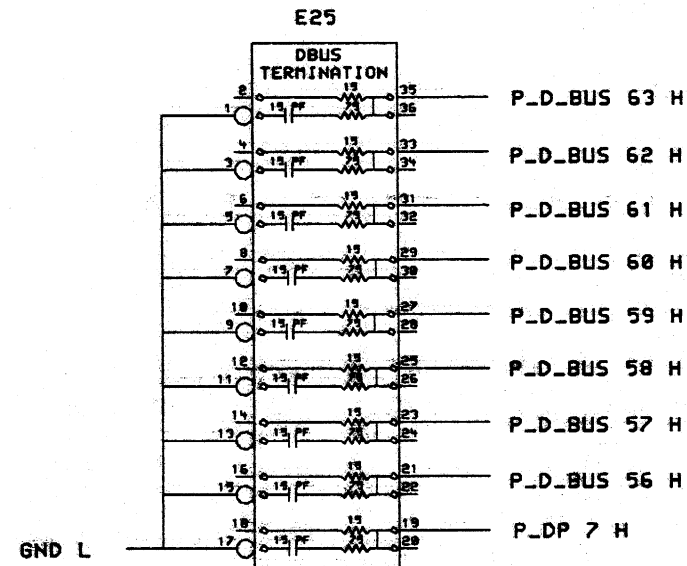
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C. MILLER
DATE 02/22/88
SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: K-DD-T2015-0-0

DATE	DATE	TITLE:
02/22/88	02/22/88	RIGEL CPU MODULE LAYOUT.LOGIC.1.11
DATE	DATE	SIZE CODE NUMBER REV.
		K CS T2015-3-XR11 A

PRELIMINARY

THERE ARE 29 SHEETS TO THIS SCHEMATIC SET.

DBUS FAR END TERMINATION
 NEAR XDP1 CHIP



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REVISION	CHK	CHANGE NO.	REV

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digital DRN. C. MILLER DATE 02/22/88
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 USRA: FIRST USED ON OPTION/MODEL:

DATE 02/22/88
 DATE 02/22/88
 SHEET 1 OF 1
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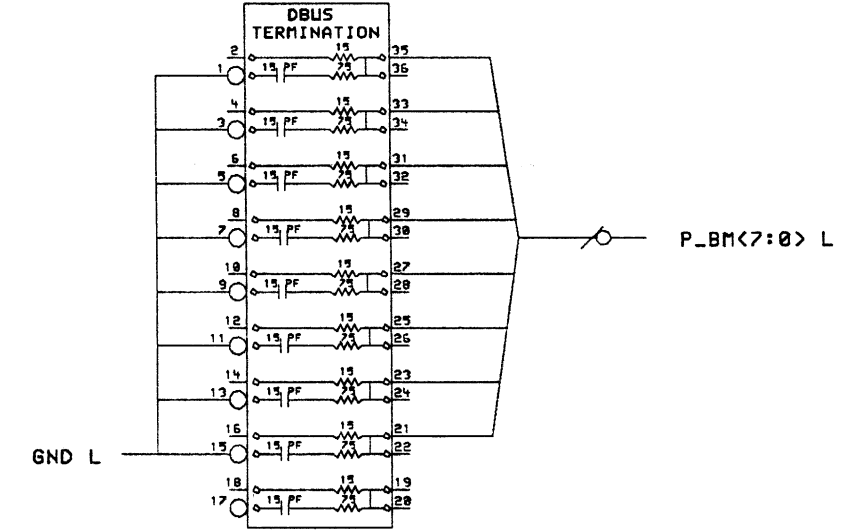
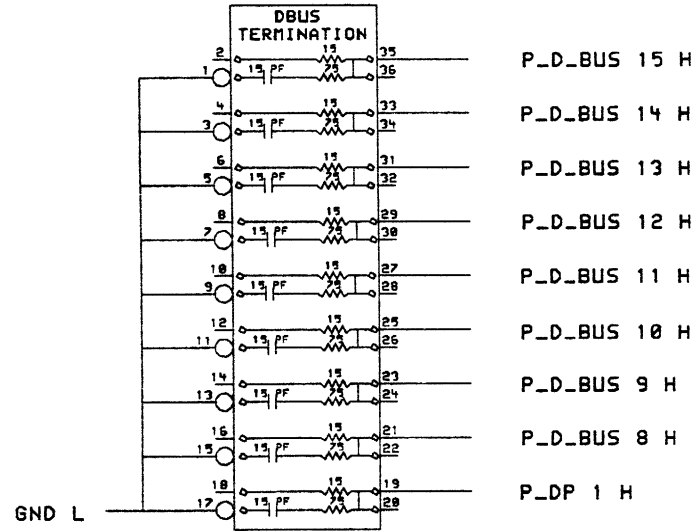
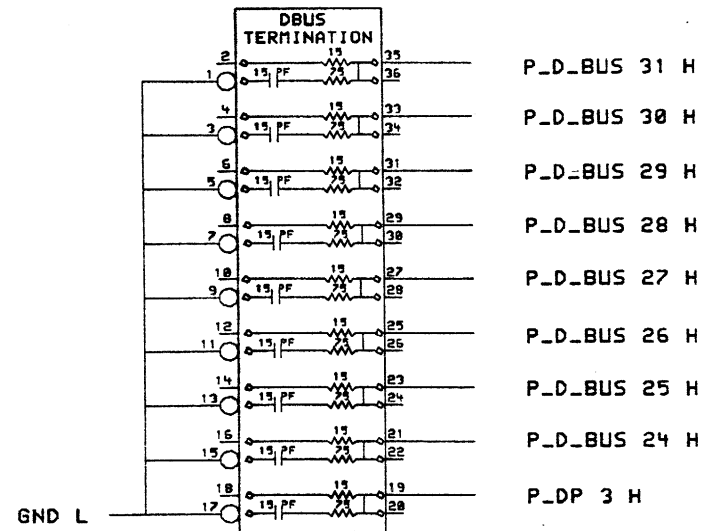
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 NEAR XDP0 CHIP

BYTE MASK TERMINATOR
 NEAR RSSC CHIP

E12

E14

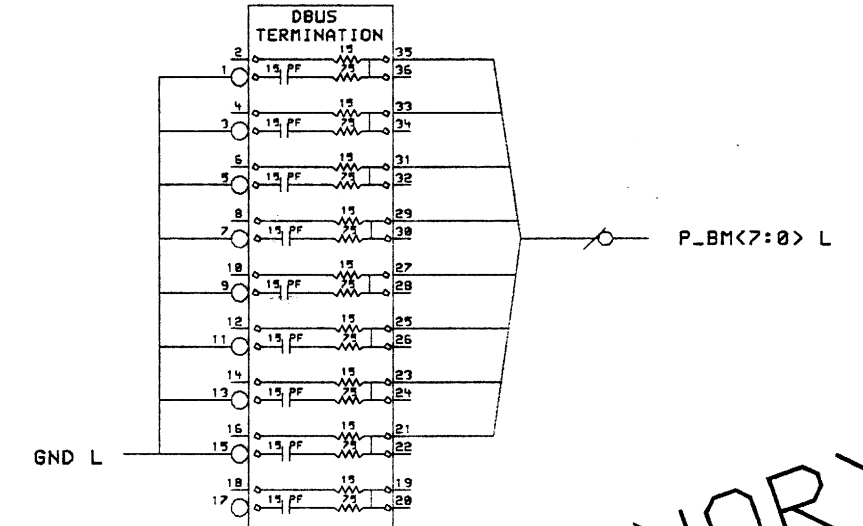
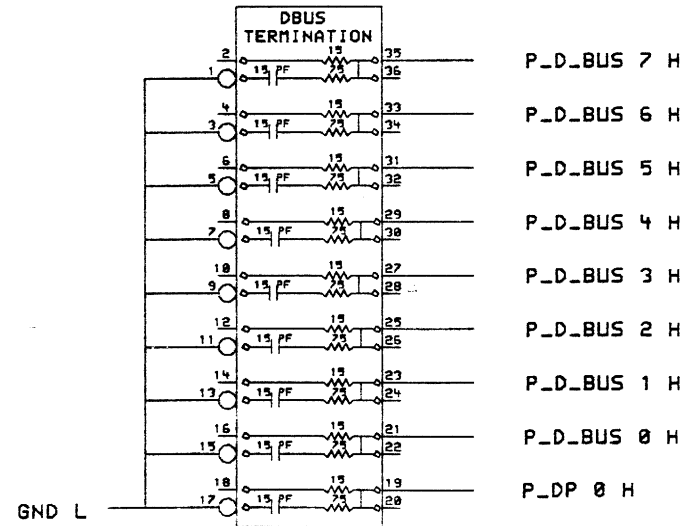
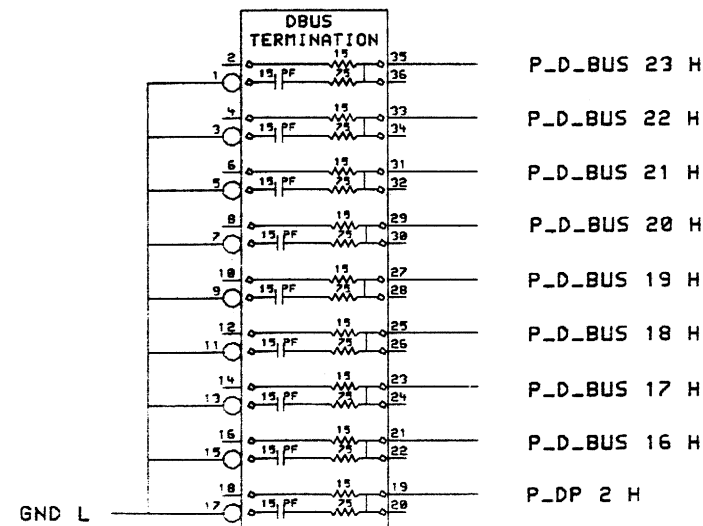
E6



E13

E3

E40



BYTE MASK TERMINATOR
 NEAR P CHIP

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REVISION
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digital
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 FIRST USED ON OPTION/MODEL:

DRN.
 C. MILLER
 CHK'D.

DATE
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DRN.
 C. MILLER
 SHEET

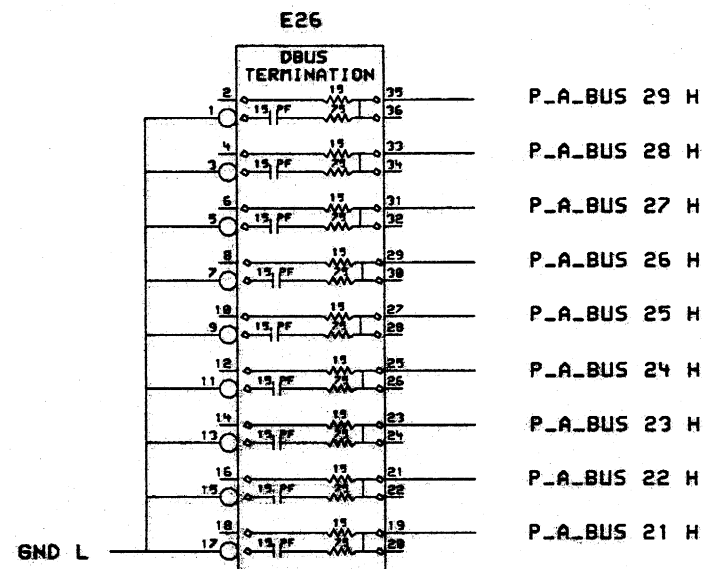
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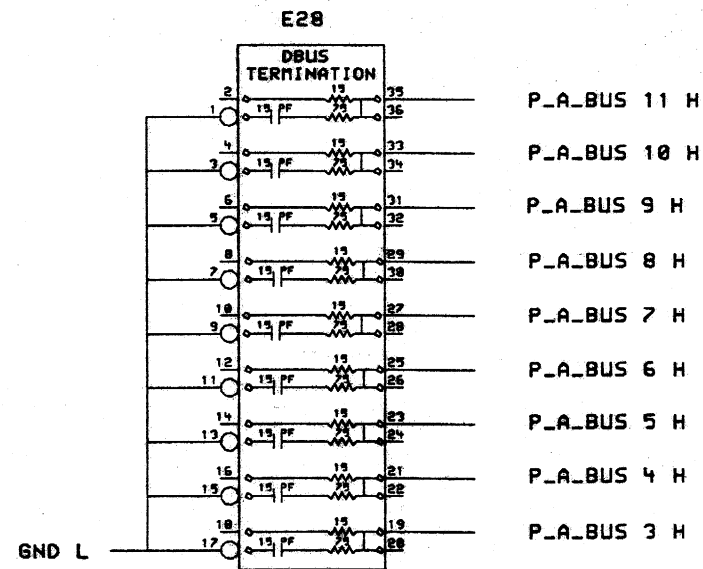
SIZE CODE NUMBER
 K CS T2015-3-XR13

REV.
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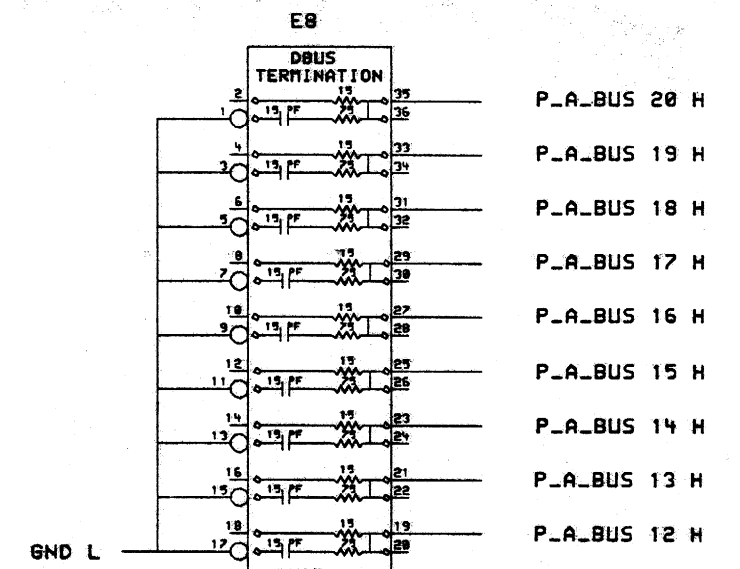
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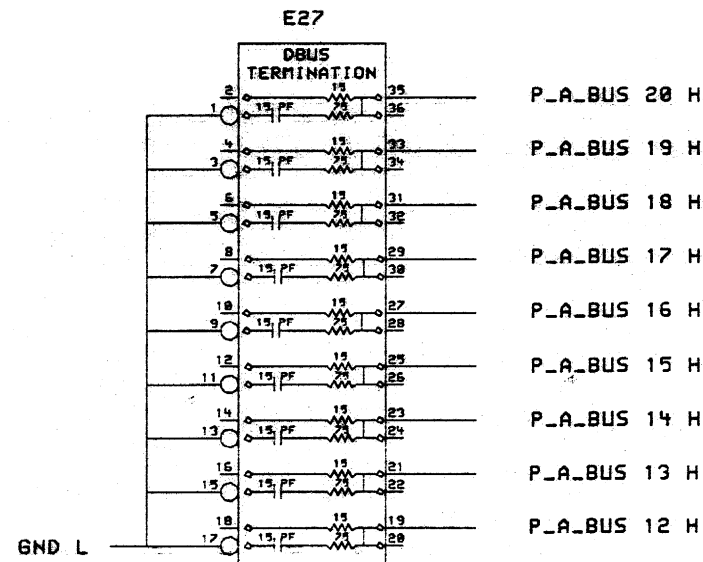
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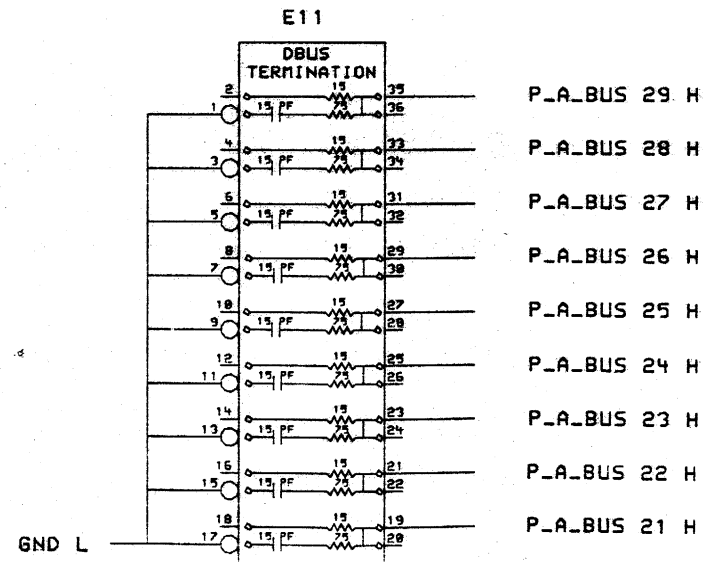
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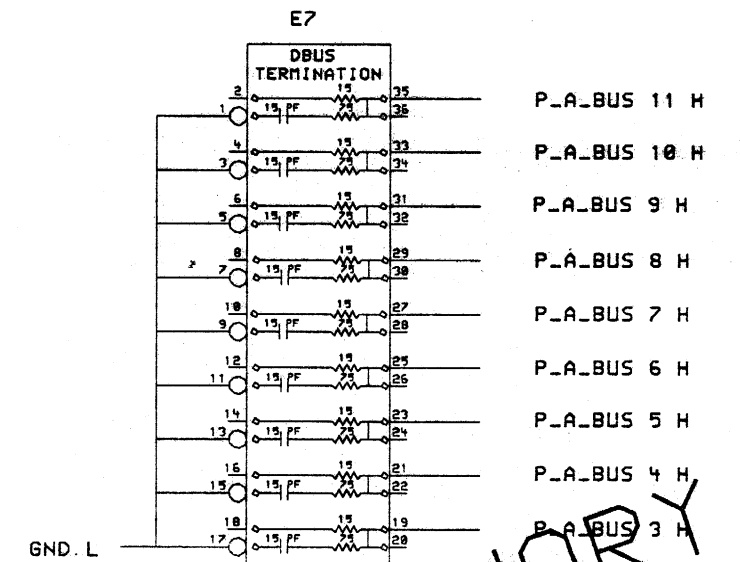
ABUS NEAR END TERMINATION - NEAR REX CHIP



ABUS FAR END TERMINATION - NEAR RSSC CHIP



ABUS FAR END TERMINATION - NEAR RSSC CHIP



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REVISION
CHK/CHANGE NO./REV

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digital
C. MILLER
CHK'D.

DATE 02/22/88
DATE 02/22/88

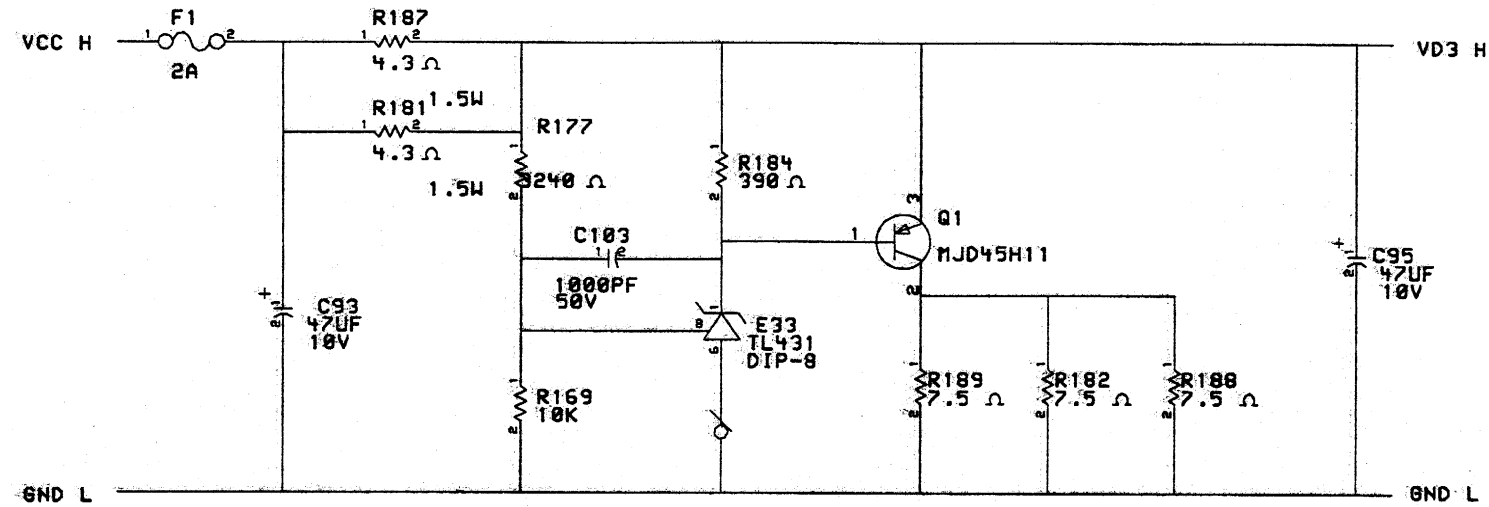
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FIRST USED ON OPTION/MODEL:

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TOP DOCUMENT NUMBER:
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SIZE CODE NUMBER REV.
K CS T2015-3-XR14 A

3.3V REGULATOR



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REVISION	CHK	CHANGE NO.	REV.

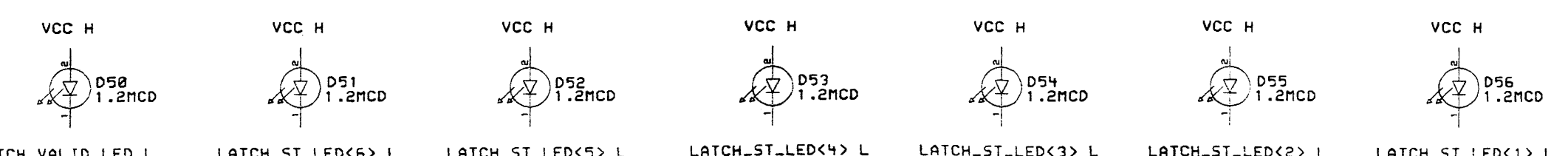
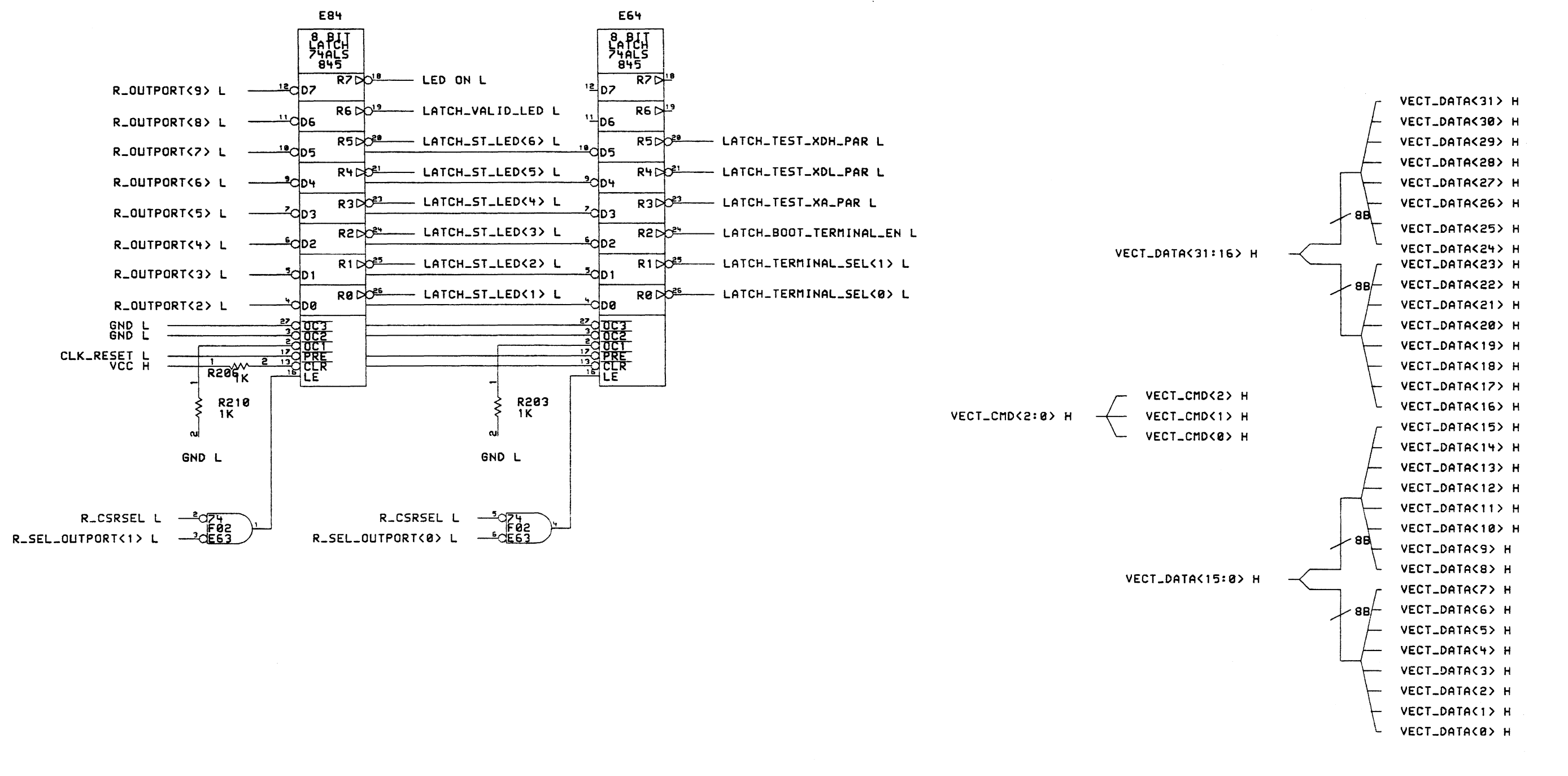
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DRN. C. MILLER
CHK'D.
DATE 02/22/88

DATE 02/22/88
SHEET 1 OF 1
TOP DOCUMENT NUMBER: K-DD-T2015-0-0

TITLE: RIGEL CPU MODULE LAYOUT.LOGIC.1.16
SIZE CODE: K CS
NUMBER: T2015-3-XR16
REV. A



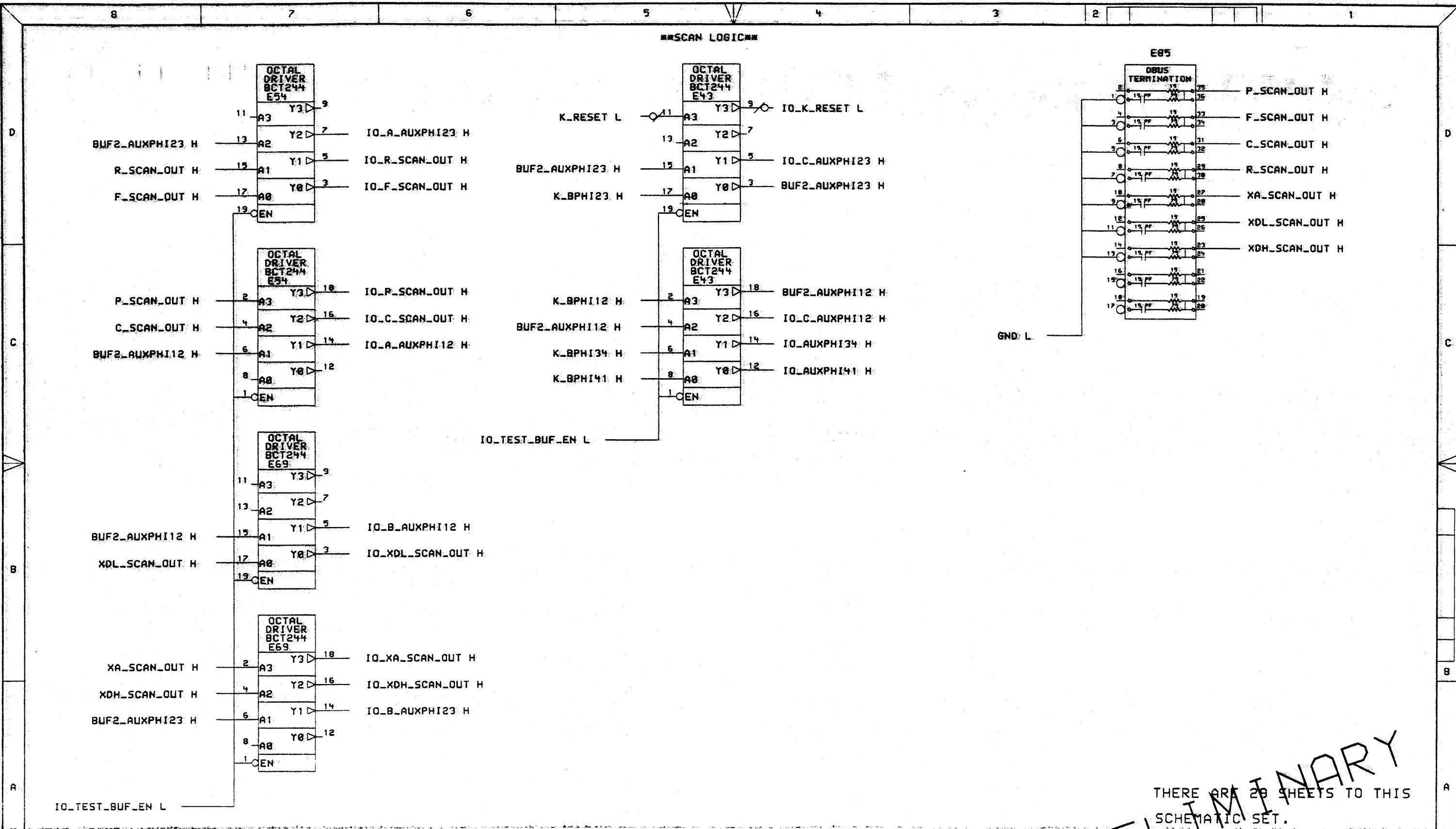
THERE ARE 29 SHEETS TO THIS SCHEMATIC SET.

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			USRA: FIRST USED ON OPTION/MODEL:	SHEET 1 OF 1 TAP DOCUMENT NUMBER: K-DD-T2015-0-0	SIZE: CODE NUMBER REV. K CS T2015-3-XR17 A	

PRELIMINARY

***SCAN LOGIC**

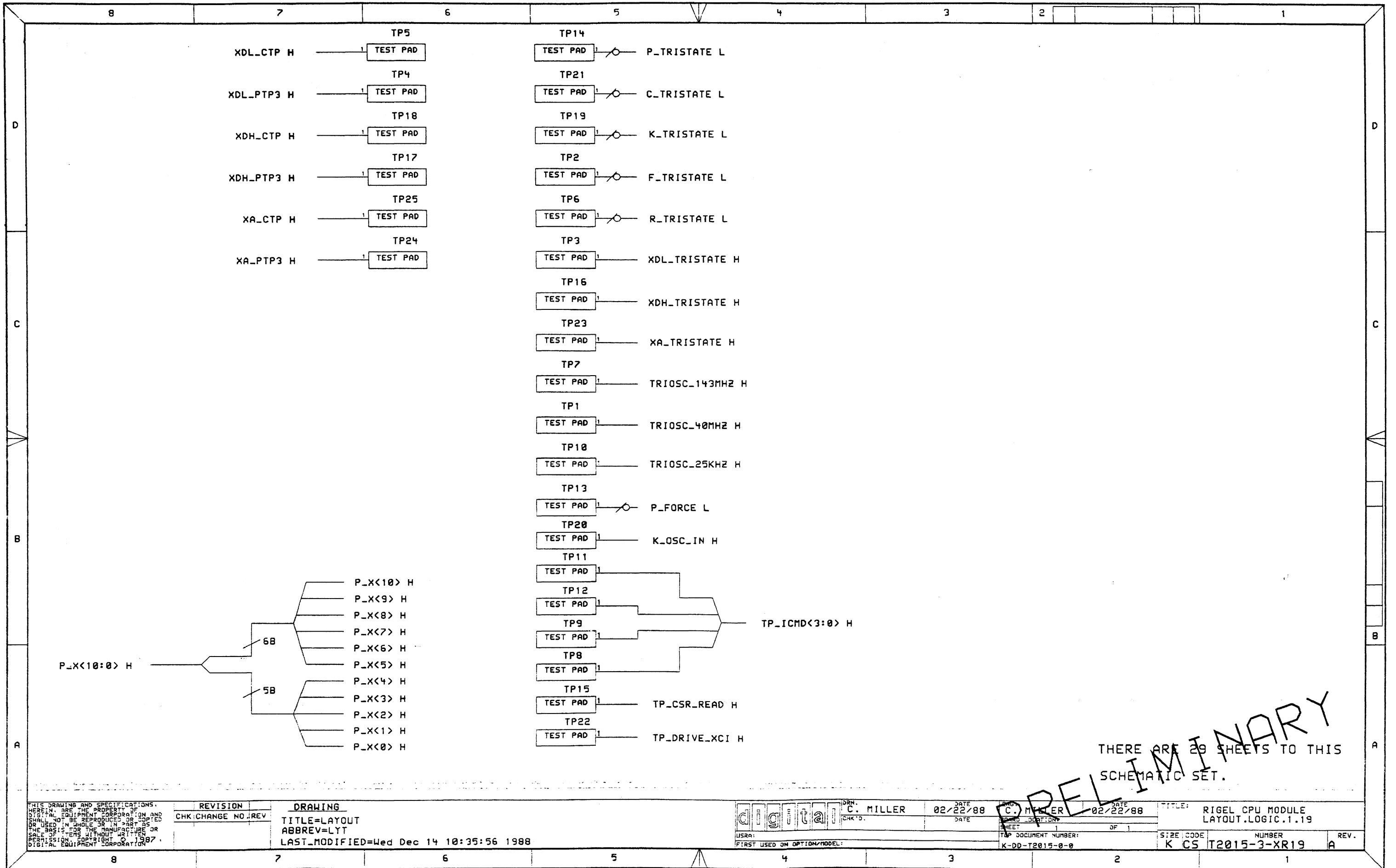
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digital

DRN. C. MILLER
 CHK'D.

DATE 02/22/88

DRN. C. MILLER
 DATE

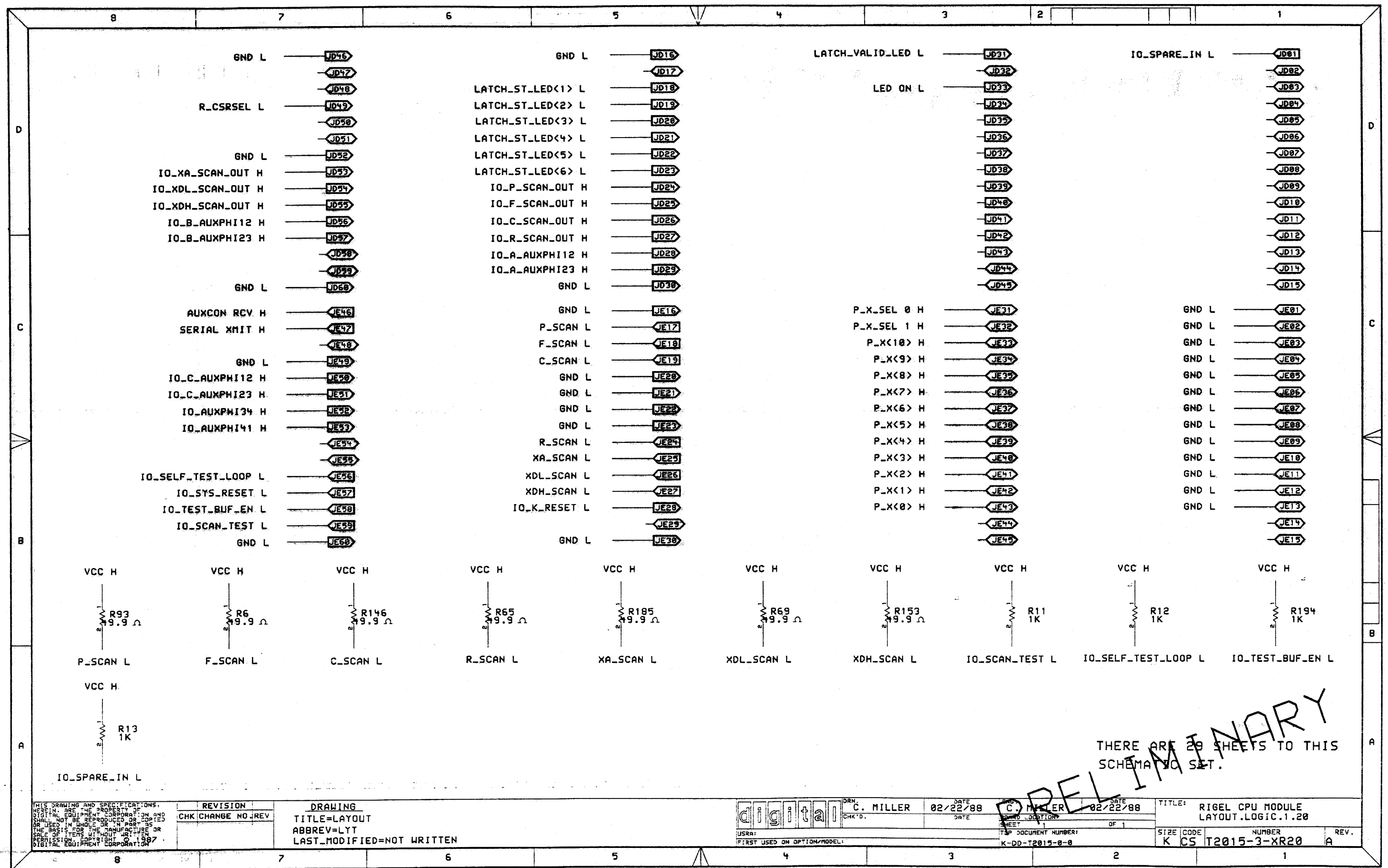
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SIZE CODE NUMBER REV.
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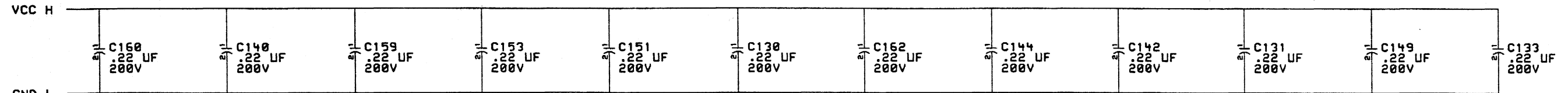
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THERE ARE 29 SHEETS TO THIS SCHEMATIC SET.

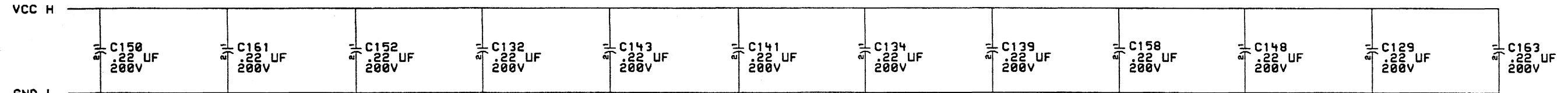
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BOARD DECOUPLING CAPS

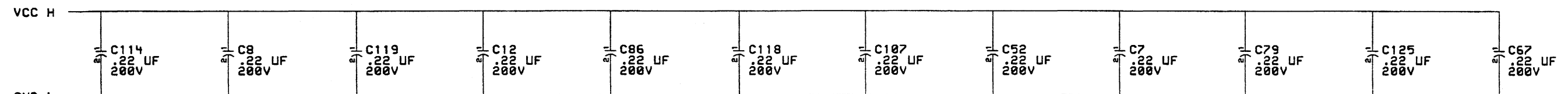
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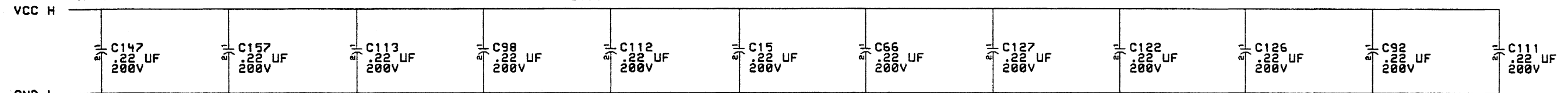
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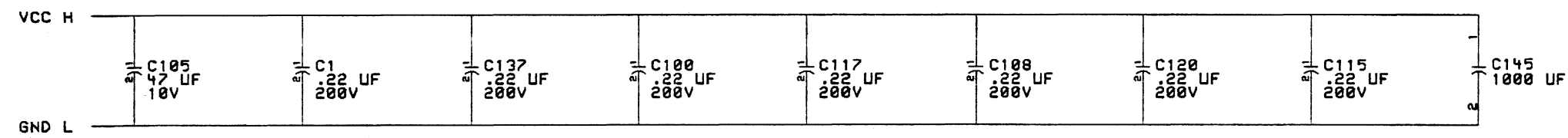
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IDT244A (1) ***OSCILLATOR (3)*** ***TL431 (1)*** ***PROM (3)*** ***74ALS845 (2)*** ***74LS04 (1)*** ***74F253 (1)***



BULK (1) ***74F02 (1)*** ***74S05 (1)*** ***74F08 (1)*** ***74LS12 (1)*** ***74F32 (1)*** ***74F74 (1)*** ***74LS132 (1)*** ***BULK (1)***



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digital

DRN. C. MILLER
 DATE 02/22/88
 CHK'D.

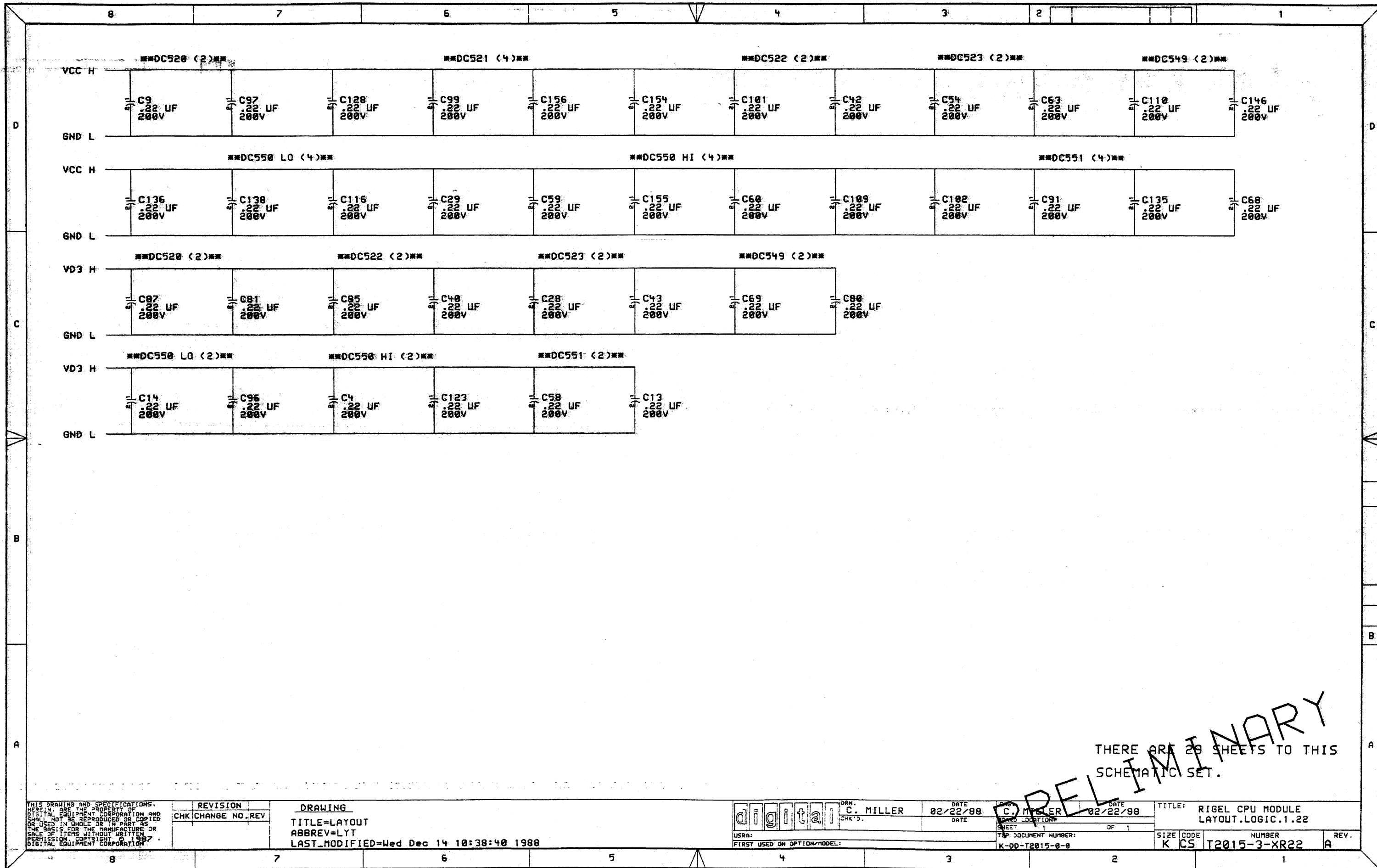
DRN. C. MILLER
 DATE 02/22/88
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TITLE: RIGEL CPU MODULE LAYOUT.LOGIC.1.21

USRA:
 FIRST USED ON OPTION/MODEL:

SHEET 1 OF 1
 TAP DOCUMENT NUMBER: K-DD-T2015-0-0

SIZE CODE NUMBER REV.
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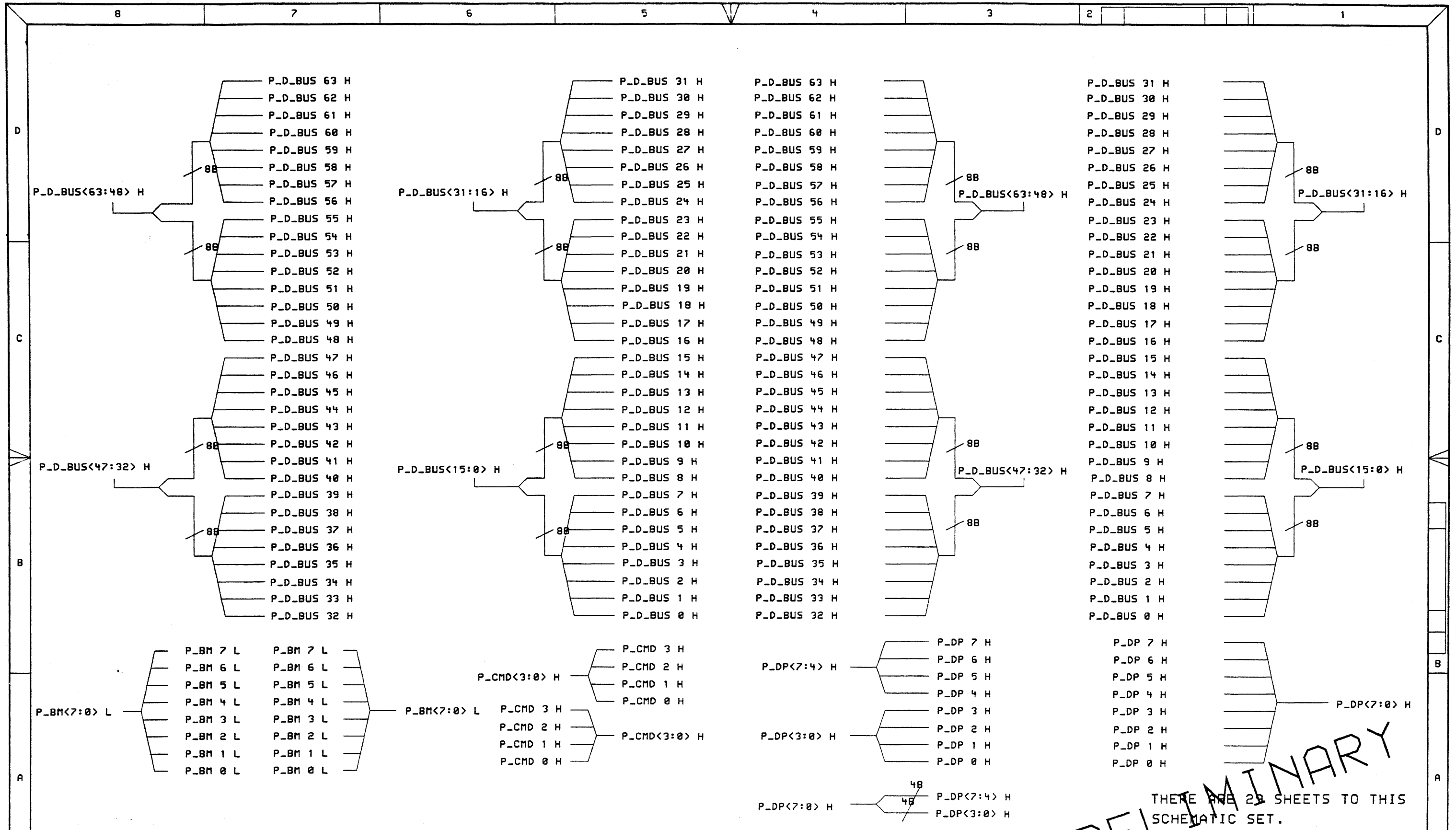
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DATE 02/22/88

DATE 02/22/88
SHEET 1 OF 1
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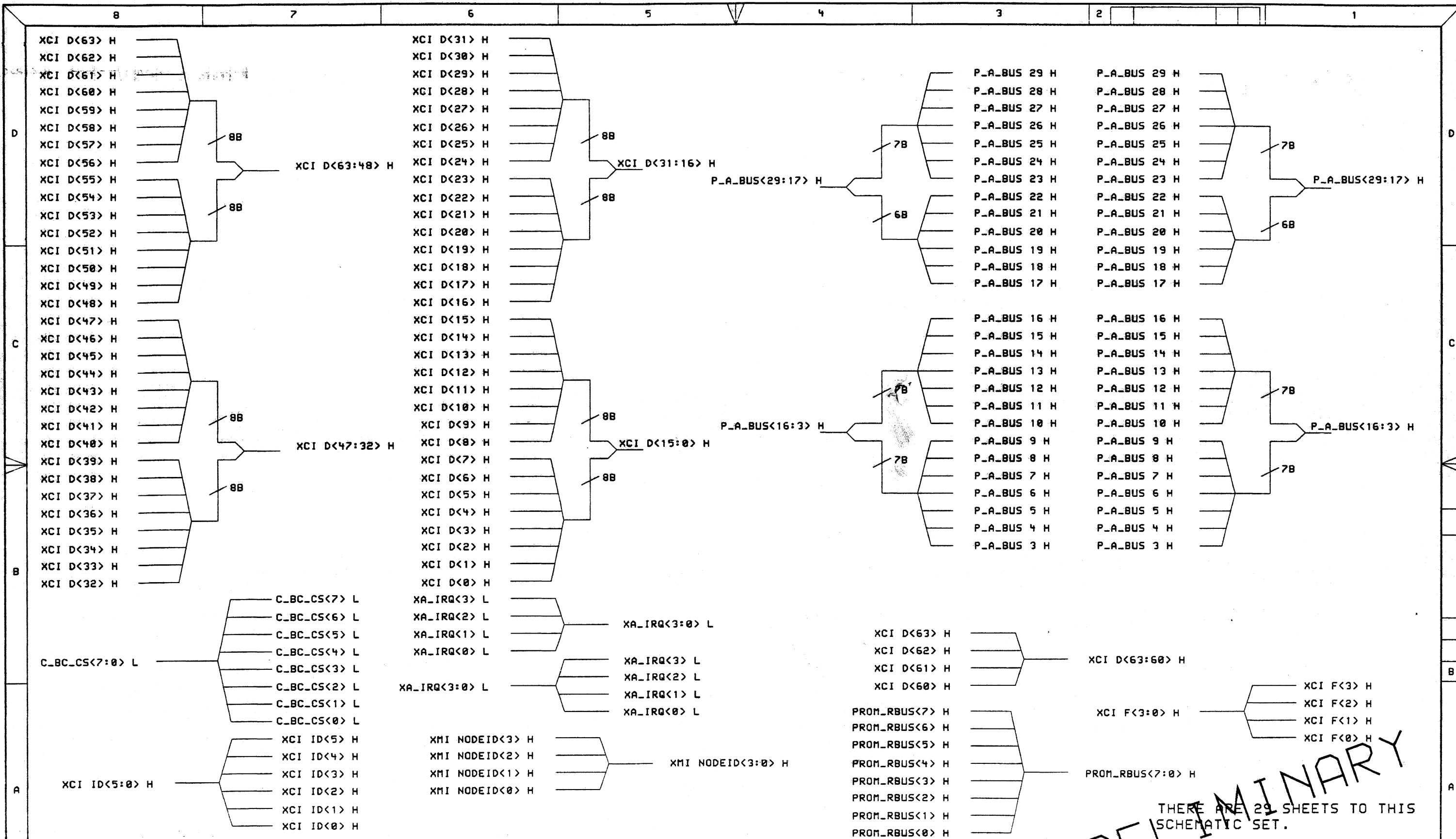
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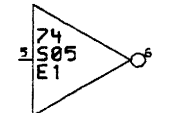
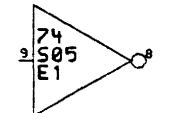
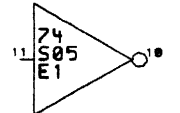
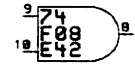
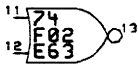
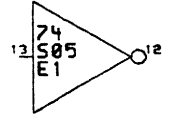
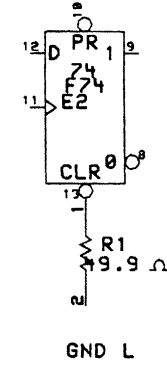
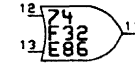
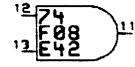
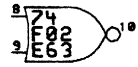
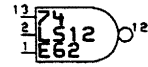


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SPARE GATES IN TTL PACKAGES ON XRP



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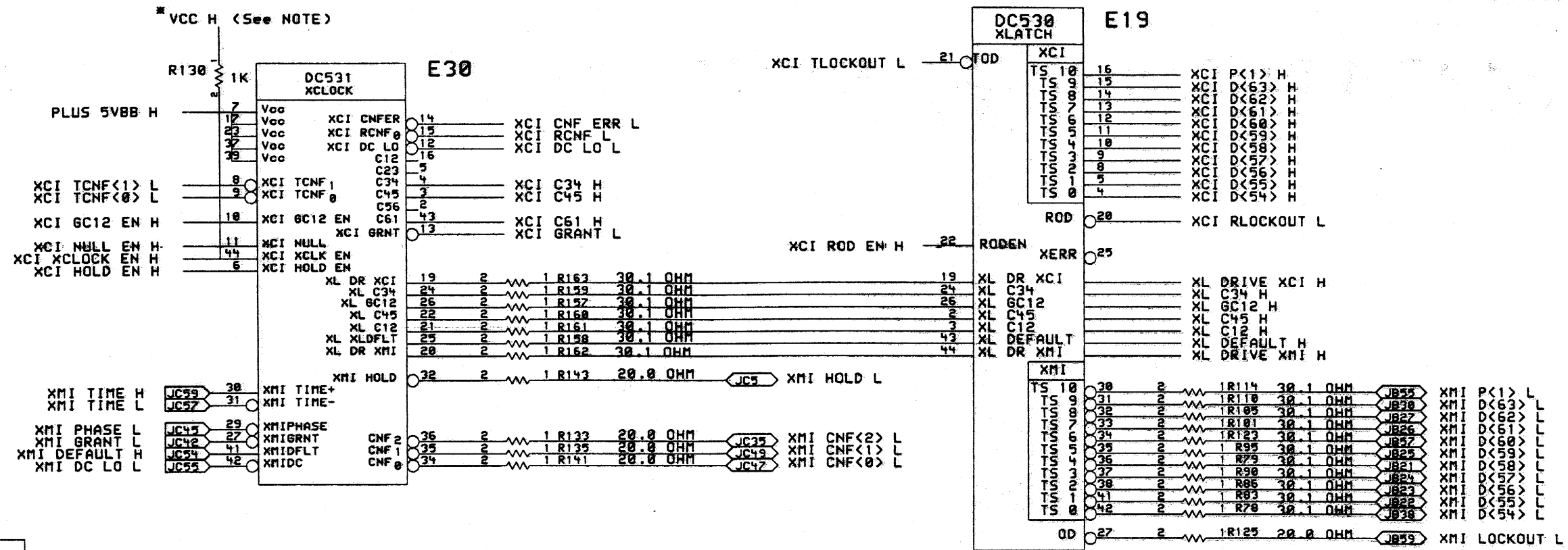
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digital
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 CHK'D. C. MILLER
 DATE 02/22/88
 DATE 02/22/88

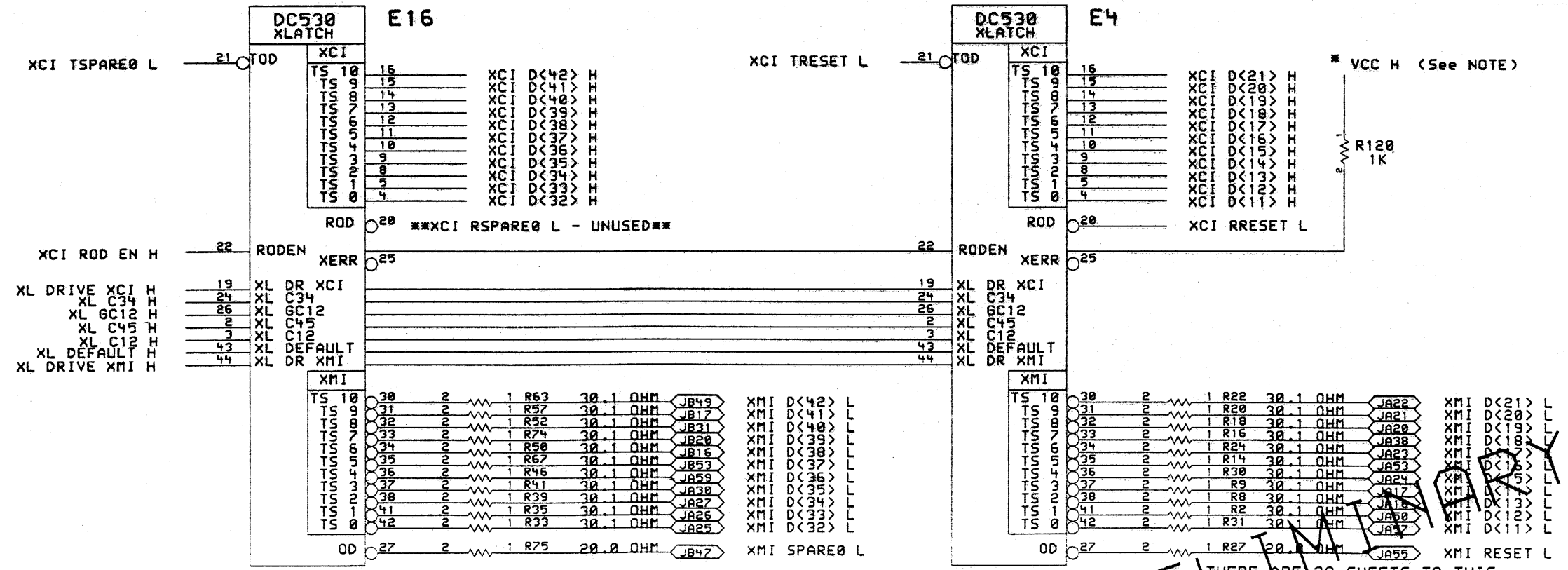
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 TOP DOCUMENT NUMBER: K-DD-T2015-0-0

TITLE: RIGEL CPU MODULE LAYOUT.LOGIC.1.25
 SIZE: K CS
 CODE: T2015-3-XR25
 NUMBER: A
 REV.:



NOTE

COMPONENT	POWER PINS		
	LOCATION	MEMORY BOARDS	
	+5V H	+5VBB	GND
XLOCK E30	-	7 17 23 37 39	1 18 28 33 38 40
XLATCH ALL	-	7 17 23 29 39	1 6 18 28 40
R120	-	* 1	-
R130	-	* 1	-
R127	-	* 1	-
NON MEMORIES			
	+5V H	+5VBB	GND
XLOCK E30	-	7 17 23 37 39	1 18 28 33 38 40
XLATCH ALL	7 17 23 29 39	-	1 6 18 28 40
R120	* 1	-	-
R130	* 1	-	-
R127	* 1	-	-



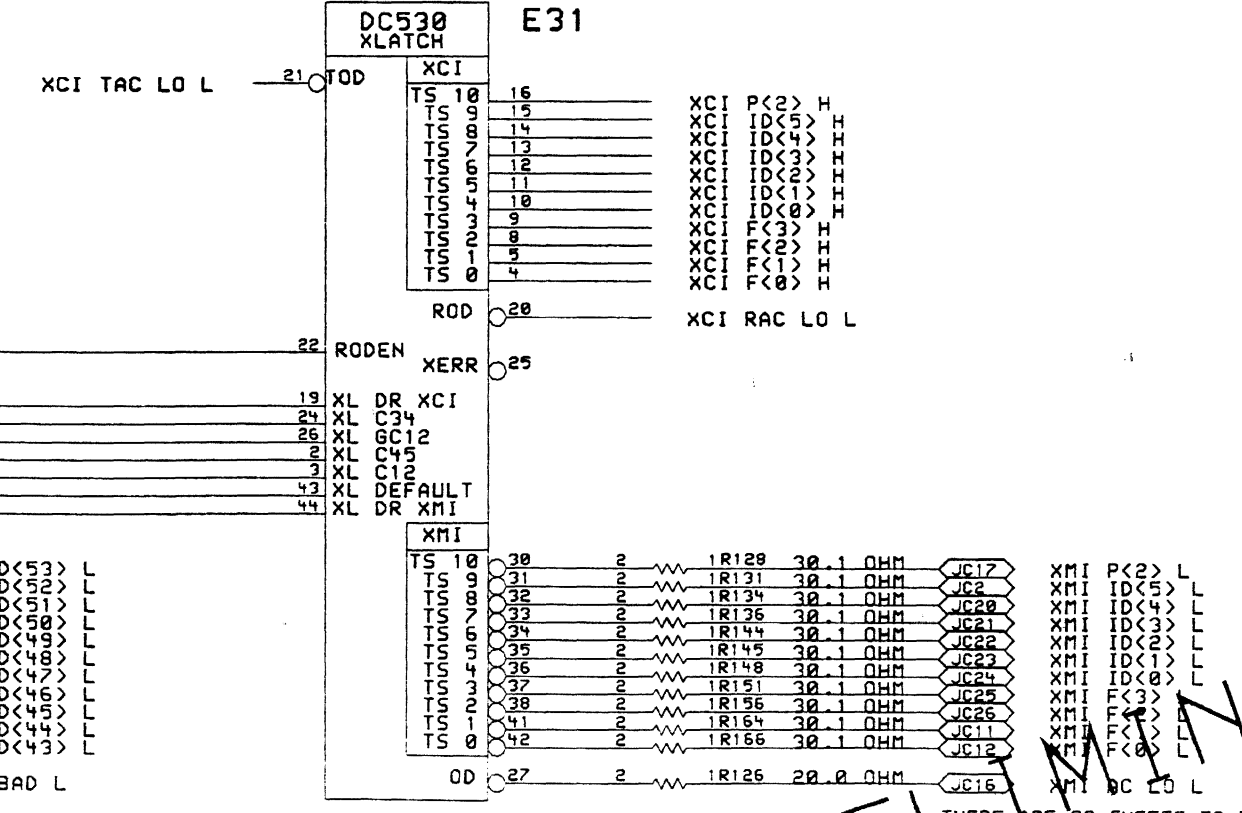
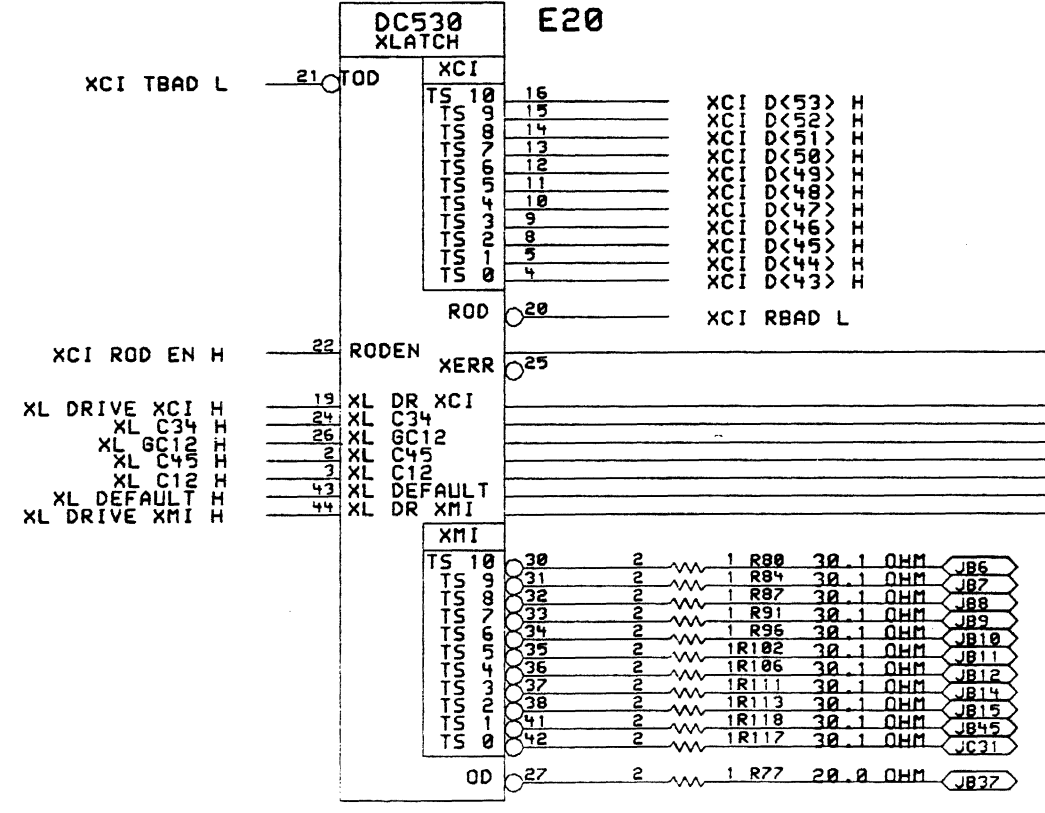
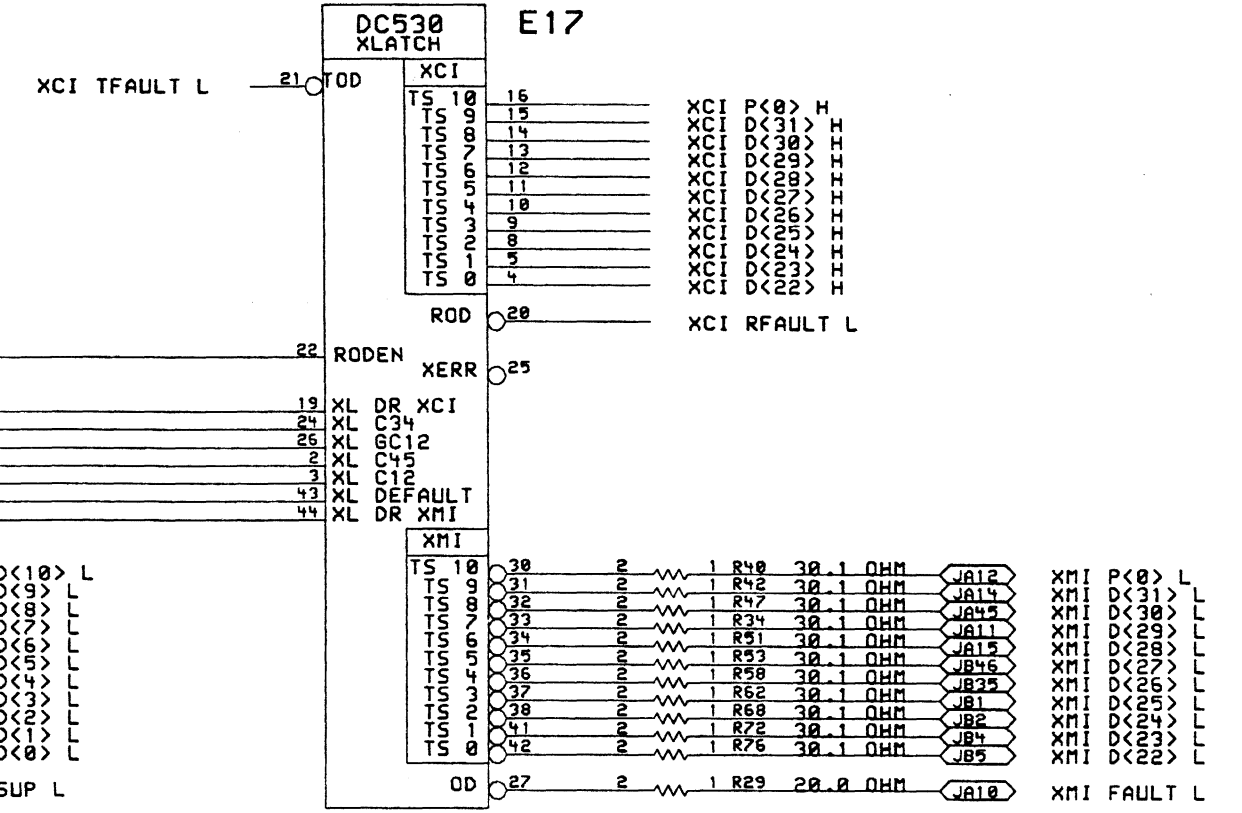
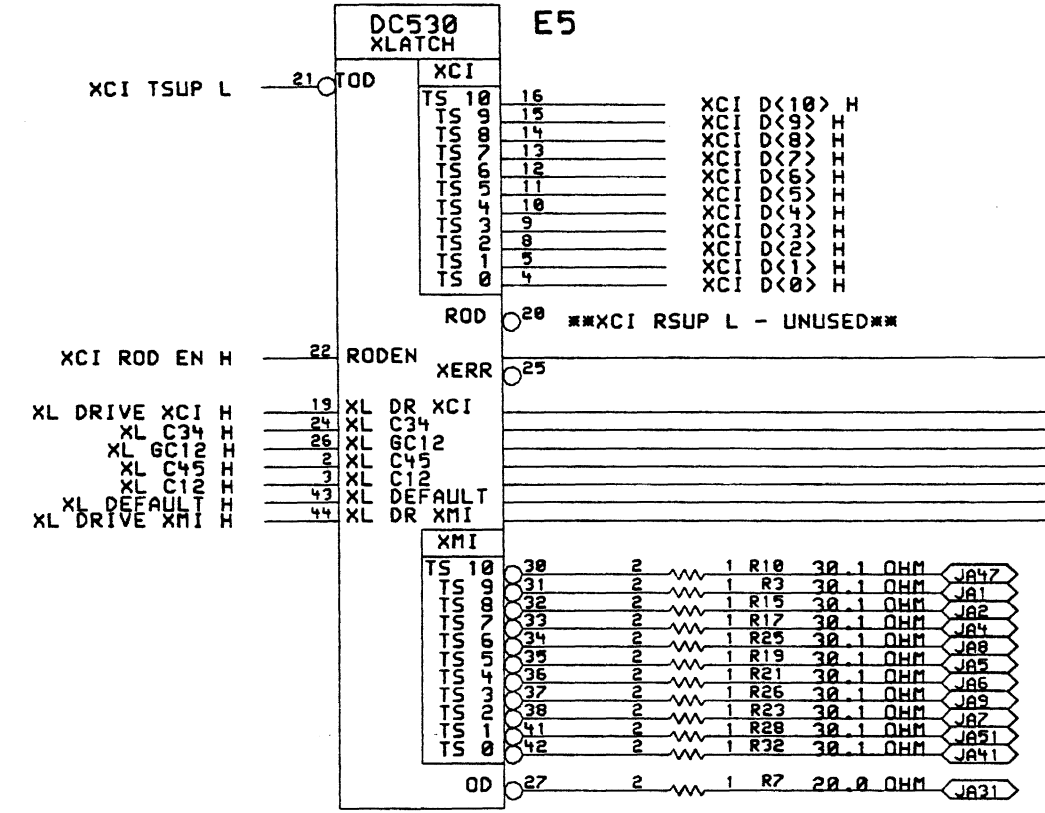
PRELIMINARY

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REVISION	DRAWING
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USRA: FIRST USED ON OPTION/MODEL:	DRN. CHK'D.	DATE	DATE	SHEET LOCATION	OF 1	TITLE: RIGEL CPU MODULE LAYOUT.LOGIC.1.26	SIZE CODE: K CS	NUMBER: T2015-3-XR26	REV. A
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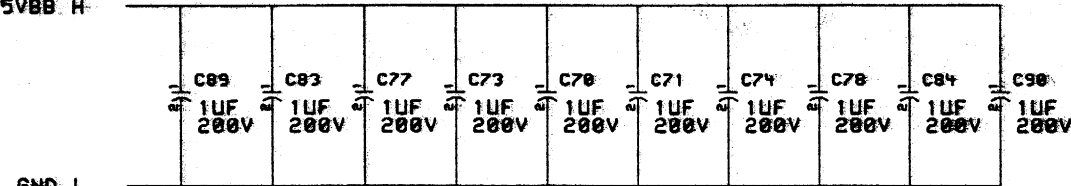
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FIRST USED ON OPTION/MODEL:

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SIZE CODE K CS T2015-3-XR27
NUMBER
REV. A

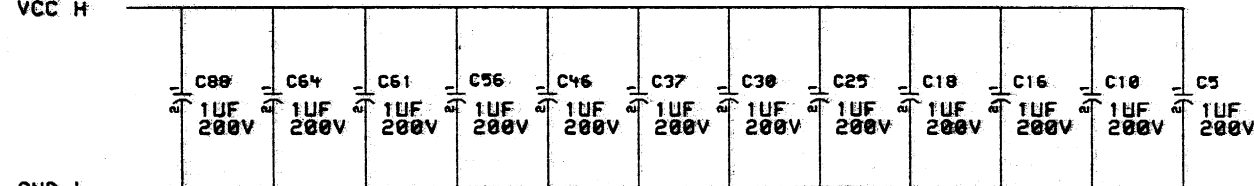
PRELIMINARY

PLUS 5V88 H



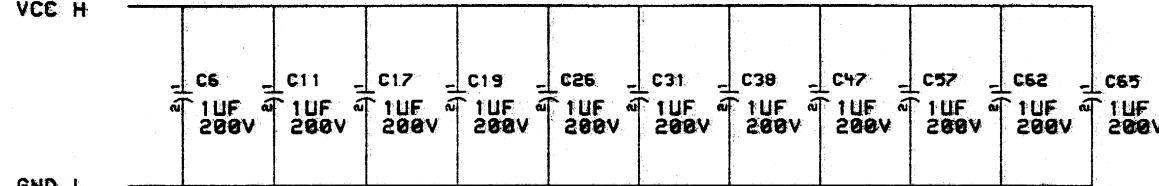
GND L

VCC H



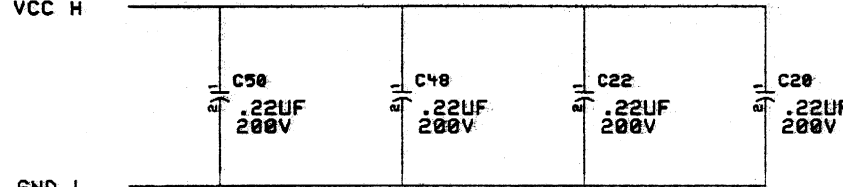
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VCC H



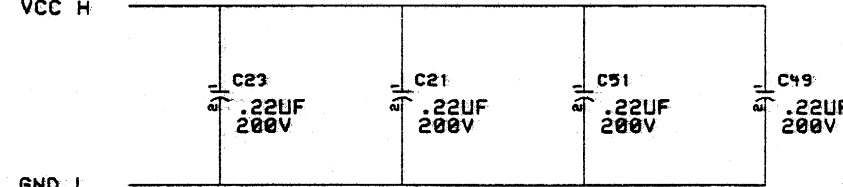
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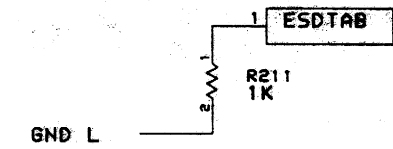


GND L

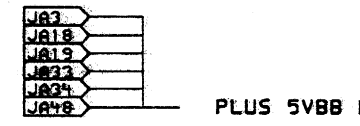
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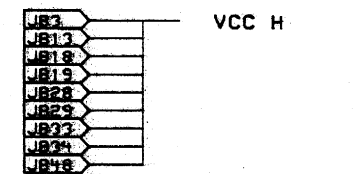
GND L



GND L



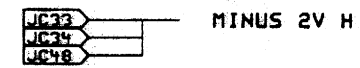
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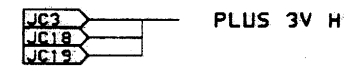
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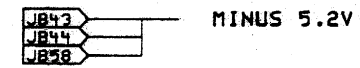
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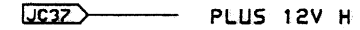
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PLUS 3V H



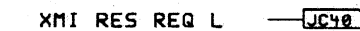
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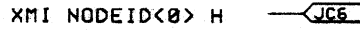
PLUS 12V H



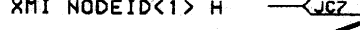
XMI CMD REQ L



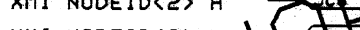
XMI RES REQ L



XMI NODEID<0> H



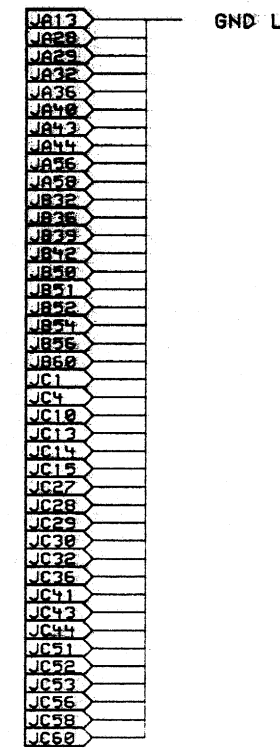
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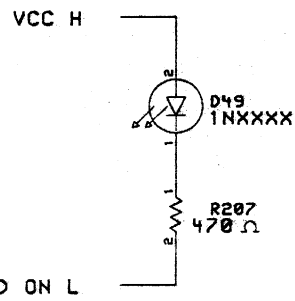
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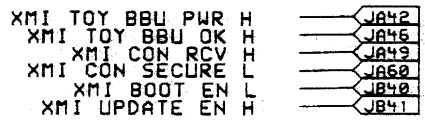
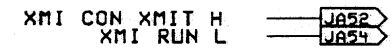
XMI NODEID<3> H



GND L



LED ON L



PRELIMINARY

THERE ARE 29 SHEETS TO THIS SCHEMATIC SET.

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REVISION	CHK	CHANGE NO.	REV.

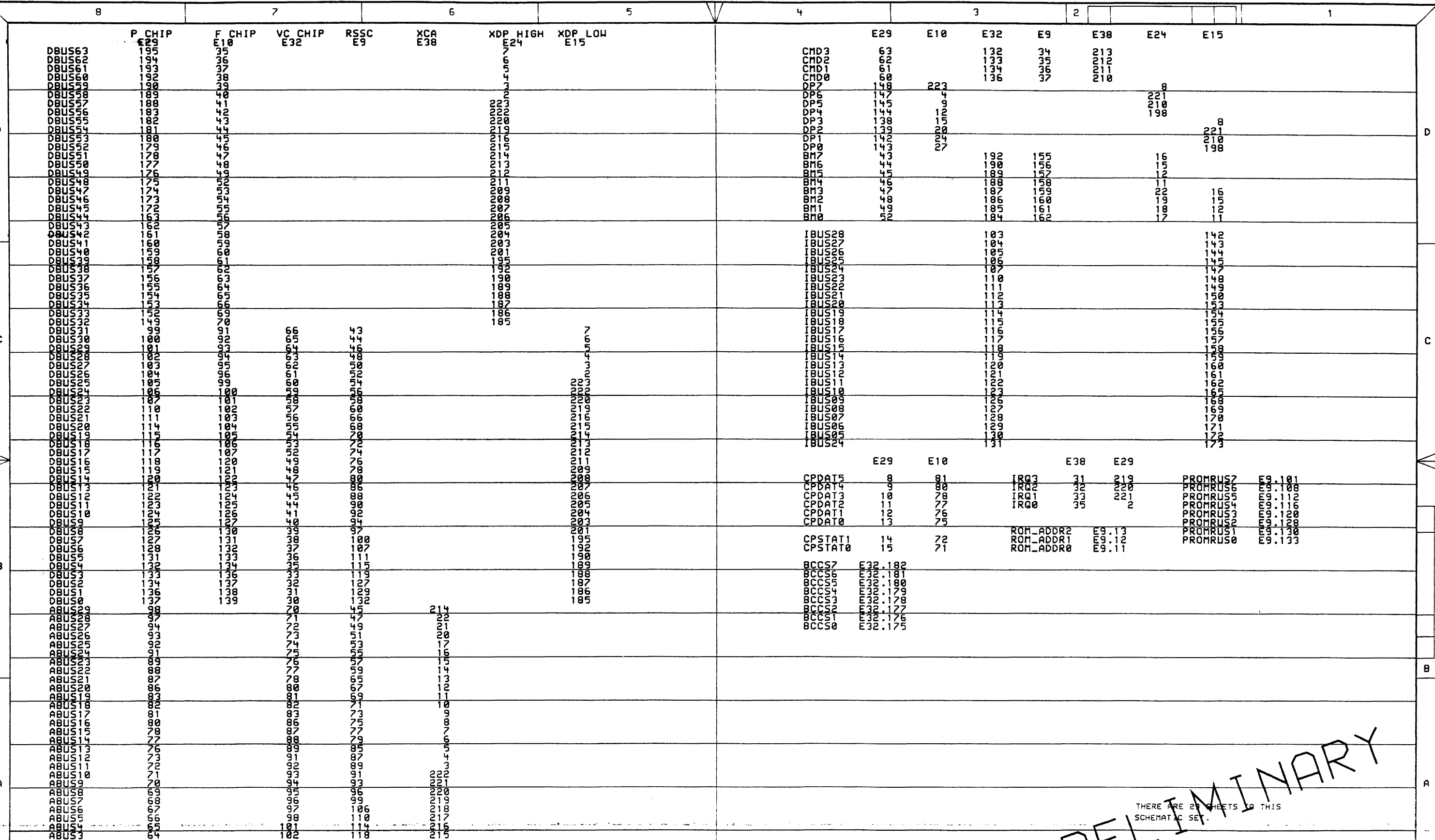
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digital
 DRN.
 DATE
 CHK'D.
 DATE
 SHEET

DATE
 DATE
 SHEET

DATE
 DATE
 SHEET

TITLE: RIGEL CPU MODULE LAYOUT.LOGIC.1.28
 SIZE CODE K CS T2015-3-XR28
 NUMBER
 REV. A



PRELIMINARY

THERE ARE 24 SHEETS IN THIS SCHEMATIC SET.

THIS DRAWING AND SPECIFICATIONS...
 DIGITAL EQUIPMENT CORPORATION
 310 CENTRE STREET, CAMDEN, N.J. 08105

DRAWING
 TITLE=BUS
 ABBREV=BUS
 LAST_MODIFIED=Wed Dec 14 11:04:06 1988

REVISION
 CHECK CHANGE NO. REV

digital
 C. MILLER
 12/9/88

TITLE:
 RIGEL CPU MODULE
 LAYOUT.LOGIC.1.29

SIZE: CODE
 K CS

NUMBER
 T2015-3-XR29

REV.
 A

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV				REFERENCE DESIGNATORS
					BA B6	BF B6	BH B6	BL B6	
1	1	K-DD-5017241-0-DBV	50-17241-01	CIRCUIT DRILL AND ETCH	1	1	1	1	
2	2		10-15605-05	0.27 MFD 50V +/-20% X7R CE	-	298	298	298	C1-C100,C122-C187,C189-C200, CONT C222-C230,C232-C242,C244-C343
3	3		10-20446-16	1000 MFD 10V +/-20% ALU	-	4	4	4	C188,C221,C231,C243
4	4		10-24051-17	220 PFD 50V +/- 5% NPO CE	-	1	1	1	C344
5	5		10-24053-12	0.22 MFD 50V +/-20% Z5U CE	-	8	8	8	C118-C121,C217-C220
6	6		10-24053-18	1.0 MFD 25V +/-20% Z5U CE	-	33	33	33	C101-C117,C201-C216
7	7		11-17373-00	LED ASSY GREEN	-	1	1	1	D102
8	8		11-17373-02	LED ASSY, YELLOW	-	1	1	1	D101
9	9		13-23825-41	470.0 .25 W 5.0 % CHIP	-	2	2	2	R24,R146
10	10	SEE NOTE 14	13-23825-49	1.0 K .25 W 5.0 % CHIP	-	18	18	18	R1-R4,R16-R23,R25,R37,R101, CONT R145,R147,R148
11	11		13-23827-30	20.0 .25 W 1.0 % CHIP	-	16	16	16	R5-R8,R10,R109,R121,R134, CONT R149-R152,R202,R213,R225,R237
12	12	SEE NOTE 15	13-23827-47	30.1 .25 W 1.0 % CHIP	-	96	96	96	R13,R26-R36,R102-R108, CONT R110-R120,R122-R133,R135-R144, CONT R201,R203-R212,R214-R224, CONT R226-R236,R238-R248
13	13		13-23827-68	49.9 .25 W 1.0 % CHIP	-	1	1	1	R11
14	14		19-21315-02	74F86 EXCLUSIVE OR GATE,QU	-	1	1	1	E12
15	15		19-23439-04	74ALS244 OCTAL BUFFER/LINE DR	-	16	16	16	E6,E17,E29,E39,E50,E62,E72,E82, CONT E92,E102,E112,E122,E132,E142, CONT E152,E162
16	16	SEE NOTE 11	21-26702-02	DC530 XMI INTERFACE CHIP (XLATC	-	7	7	7	E1,E23,E45,E258,E277,E287,E306
17	17	SEE NOTES 1,6	21-26656-33	*** THIS ITEM IS NOT USED ***	-	-	-	-	
18	18		21-26703-01	DC531 XMI CLOCK DECODER CHIP (XC	-	1	1	1	E56
19	19	SEE NOTES 2,7	21-27103-33	CMOS DYN RAM 120NS 1	-	-	-	-	
20	20	SEE NOTES 3,8	21-27105-33	CMOS DYN RAM 120NS 1	-	-	-	288	E2-E5,E7-E11,E13-E16,E18-E22, CONT E25-E28,E30-E38,E40-E44, CONT E46-E49,E51-E55,E58-E61.

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF B	DRN: L. HAYWOOD	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 03-MAR-87				
---	INITIAL	A	[A]	BA,BF,BH,BL	[M]	CHK'D: J. CUNNINGHAM	TITLE PARTS LIST			
DS	T2014-SH001	B	[B]	BP	[N]	DATE: 03-MAR-87	XMA 32 MBYTE CMOS MEMORY			
D.S	T2014-SH002	C	[C]		[P]	DES.ENG: JOE RANTALA	DIGITAL INTERNAL USE ONLY			
D.S	T2014-SH003	D	[D]		[Q]	DATE: 07-APR-87	DOCUMENT NUMBER			
			[E]		[R]	RESP.ENG.: S. BOROFSKI	SIZE	CODE	NUMBER	REV
			[F]		[S]	DATE: 07-APR-87	K	PL	T2014-0-DBP	D
			[H]		[T]	MFG.ENG: R. POORE	RELEASE DATE: 25-OCT-88			
			[J]		[V]	DATE: 07-APR-87	RELEASE STATUS: RELEASED			
			[K]		[W]					
			[L]		[Y]					
			BASIC PART NUMBER:		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:		EDIT #		
			T2014		E-UA-T2014-0-0	K-DD-T2014-0-DBV		5		
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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV BP B6	REFERENCE DESIGNATORS
1	1	K-DD-5017241-0-DBV	50-17241-01	CIRCUIT DRILL AND ETCH	1	
2	2		10-15605-05	0.27 MFD 50V +/-20% X7R CE	298	C1-C100,C122-C187,C189-C200, CONT C222-C230,C232-C242,C244-C343
3	3		10-20446-16	1000 MFD 10V +/-20% ALU	4	C188,C221,C231,C243
4	4		10-24051-17	220 PFD 50V +/- 5% NP0 CE	1	C344
5	5		10-24053-12	0.22 MFD 50V +/-20% Z5U CE	8	C118-C121,C217-C220
6	6		10-24053-18	1.0 MFD 25V +/-20% Z5U CE	33	C101-C117,C201-C216
7	7		11-17373-00	LED ASSY GREEN	1	D102
8	8		11-17373-02	LED ASSY, YELLOW	1	D101
9	9		13-23825-41	470.0 .25 W 5.0 % CHIP	2	R24,R146
10	10	SEE NOTE 14	13-23825-49	1.0 K .25 W 5.0 % CHIP	18	R1-R4,R16-R23,R25,R37,R101, CONT R145,R147,R148
11	11		13-23827-30	20.0 .25 W 1.0 % CHIP	16	R5-R8,R10,R109,R121,R134, CONT R149-R152,R202,R213,R225,R237
12	12	SEE NOTE 15	13-23827-47	30.1 .25 W 1.0 % CHIP	96	R13,R26-R36,R102-R108, CONT R110-R120,R122-R133,R135-R144, CONT R201,R203-R212,R214-R224, CONT R226-R236,R238-R248
13	13		13-23827-68	49.9 .25 W 1.0 % CHIP	1	R11
14	14		19-21315-02	74F86 EXCLUSIVE OR GATE, QU	1	E12
15	15		19-23439-04	74ALS244 OCTAL BUFFER/LINE DR	16	E6,E17,E29,E39,E50,E62,E72,E82, CONT E92,E102,E112,E122,E132,E142, CONT E152,E162
16	16	SEE NOTE 11	21-26702-02	DC530 XMI INTERFACE CHIP (XLATC	7	E1,E23,E45,E258,E277,E287,E306
17	17	SEE NOTES 1,6	21-26656-33	*** THIS ITEM IS NOT USED ***	-	
18	18		21-26703-01	DC531 XMI CLOCK DECODER CHIP (XC	1	E56
19	19	SEE NOTES 2,7	21-27103-33	CMOS DYN RAM 120NS 1	288	E2-E5,E7-E11,E13-E16,E18-E22, CONT E25-E28,E30-E38,E40-E44, CONT E46-E49,E51-E55,E58-E61, CONT E63-E71,E73-E81,E83-E91,

REVISION HISTORY			KPL MODULE FORMAT		SECTION B OF B	DRN: L. HAYWOOD	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 03-MAR-87				
---	INITIAL	A	[A]	BA,BF,BH,BL	[M]	CHK'D: J. CUNNINGHAM	TITLE PARTS LIST			
DS	T2014-SH001	B	[B]	BP	[N]	DATE: 03-MAR-87	XMA 32 MBYTE CMOS MEMORY			
D.S	T2014-SH002	C	[C]		[P]	DES.ENG: JOE RANTALA	DIGITAL INTERNAL USE ONLY			
D.S	T2014-SH003	D	[D]		[Q]	DATE: 07-APR-87	DOCUMENT NUMBER			
			[E]		[R]	RESP.ENG.: S. BOROFSKI	SIZE	CODE	NUMBER	REV
			[F]		[S]	DATE: 07-APR-87	K	PL	T2014-0-DBP	D
			[H]		[T]	MFG.ENG: R. POORE	RELEASE DATE: 25-OCT-88			
			[J]		[V]	DATE: 07-APR-87	RELEASE STATUS: RELEASED			
			[K]		[W]					
			[L]		[Y]					
			BASIC PART NUMBER:		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:		EDIT #		
			T2014		E-UA-T2014-0-0	K-DD-T2014-0-DBV		5		
			FILE NAME: MLA1038D.PLS							

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV BP B6	REFERENCE DESIGNATORS
20	20	SEE NOTES 3,8	21-27105-33	CMOS DYN RAM 120NS 1	-	CONT E93-E101,E103-E111,E113-E121, CONT E123-E131,E133-E141,E143-E151, CONT E153-E161,E163-E257,E259-E276, CONT E278-E286,E288-E305,E307-E315
21	21	SEE NOTES 4,9	21-27976-33	CMOS,DYN RAM,120NS 1	-	
22	22	SEE NOTES 5,10.	21-28061-33	CMOS,DUN RAM,120NS,1048576X1 FAS	-	
23	23		21-28820-01	*** THIS ITEM IS NOT USED ***	-	
24	24		23-402A1-00	*** THIS ITEM IS NOT USED ***	-	
25	25		23-403A1-00	*** THIS ITEM IS NOT USED ***	-	
26	26		23-412A1-00	A1-11	1	
27	27	SEE NOTES 12,13	21-28820-02	DC7069B MEMORY ARRAY	1	
28	28	SEE NOTE 16	19-21320-02	74F157 MUX/DATSEL,QUAD,2-IN	-	E24 E57

- 1 GEN: T2014-AA IS THE PRIMARY VARIATION OF THE 16MB MEMORY WITH NO RAMS INDICATED.
- 2 GEN: T2014-AP IS THE 16MB MEMORY WITH MITSUBSHI 1 MB X 1 DRAMS.
- 3 GEN: T2014-AL IS THE 16MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 4 GEN: T2014-AF IS THE 16MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 5 GEN: T2014-AH IS THE 16MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 6 GEN: T2014-BA IS THE PRIMARY VARIATION OF THE 32MB MEMORY WITH NO RAMS INDICATED.
- 7 GEN: T2014-BP IS THE 32MB MEMORY WITH MITSUBSHI 1 MB X 1 DRAMS.
- 8 GEN: T2014-BL IS THE 32MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 9 GEN: T2014-BF IS THE 32MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 10 GEN: T2014-BH IS THE 32MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 11 GEN: 21-26702-01 WITH PIN 25 CUT OFF IS AN ACCEPTABLE SUBSTITUTE FOR 21-26702-02.
- 12 GEN: IF MODULE REVISION B3 IS FIELD RETURNED, REPLACE E57 P/N 21-28820-01 WITH P/N 21-28820-02.
- 13 GEN: ** ONLY **. IF P/N 21-28820-01 TESTS BADLY. MODULE REVISION B3 IS A SHIPPABLE REVISION.
- 14 GEN: R37 USED ON PCB 50-17241-01 C1 OR LATER.
- 15 GEN: R26-R36 USED ON PCB 50-17241-01 C1 OR LATER.
- 16 GEN: E316 USED ON PCB 50-17241-01 C1 OR LATER.

D	I	G	I	T	A	L	TITLE	SECTION B OF B	SIZE	CODE	DOCUMENT NUMBER	REV
:	:	:	:	:	:	:	XMA 32 MBYTE CMOS MEMORY	:	:	:	T2014-0-DBP	:
:	:	:	:	:	:	:	DIGITAL INTERNAL USE ONLY	:	K	PL	:	D

DRAWING NO.	IND. SHTS	PART NO.	DESCRIPTION	REVISIONS
		T2014-AA	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-AF	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-AH	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-AL	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-AP	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-BA	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-BA	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-BF	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-BH	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-BL	XMA 32 MBYTE CMOS MEMORY	1B2
		T2014-BP	XMA 32 MBYTE CMOS MEMORY	1B2
E-UA-T2014-0-0	12		UNIT ASSEMBLY	1A
K-CS-T2014-0-1	1		CIRCUIT SCHEMATIC	1A
K-CS-T2014-0-2	1		CIRCUIT SCHEMATIC	1A
K-CS-T2014-0-3	1		CIRCUIT SCHEMATIC	1A
K-CS-T2014-0-4	1		CIRCUIT SCHEMATIC	1A
K-CS-T2014-0-5	1		CIRCUIT SCHEMATIC	1A
K-CS-T2014-0-6	1		CIRCUIT SCHEMATIC	1A

NOTES:

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DRN: B. CORMIER	DATE: 9-3-87	d i g i t a l		
CHK'D: B. DITOMMASO	DATE: 9-3-87	TITLE	XMA 32 MBYTE CMOS MEMORY	
DES. ENG.: J. RANTALA	DATE: 10-20-87	SHEET 1 OF 2	EDIT: 4	
RESP. ENG.: S. BOROFSKI	DATE: 10-20-87	DOCUMENT NUMBER		
IDD FILENAME: T2014A.DDF				
MFG. ENG.: R. POORE	DATE: 10-20-87	SIZE	CODE	NUMBER
		K	DD	T2014-0-0
				REV A

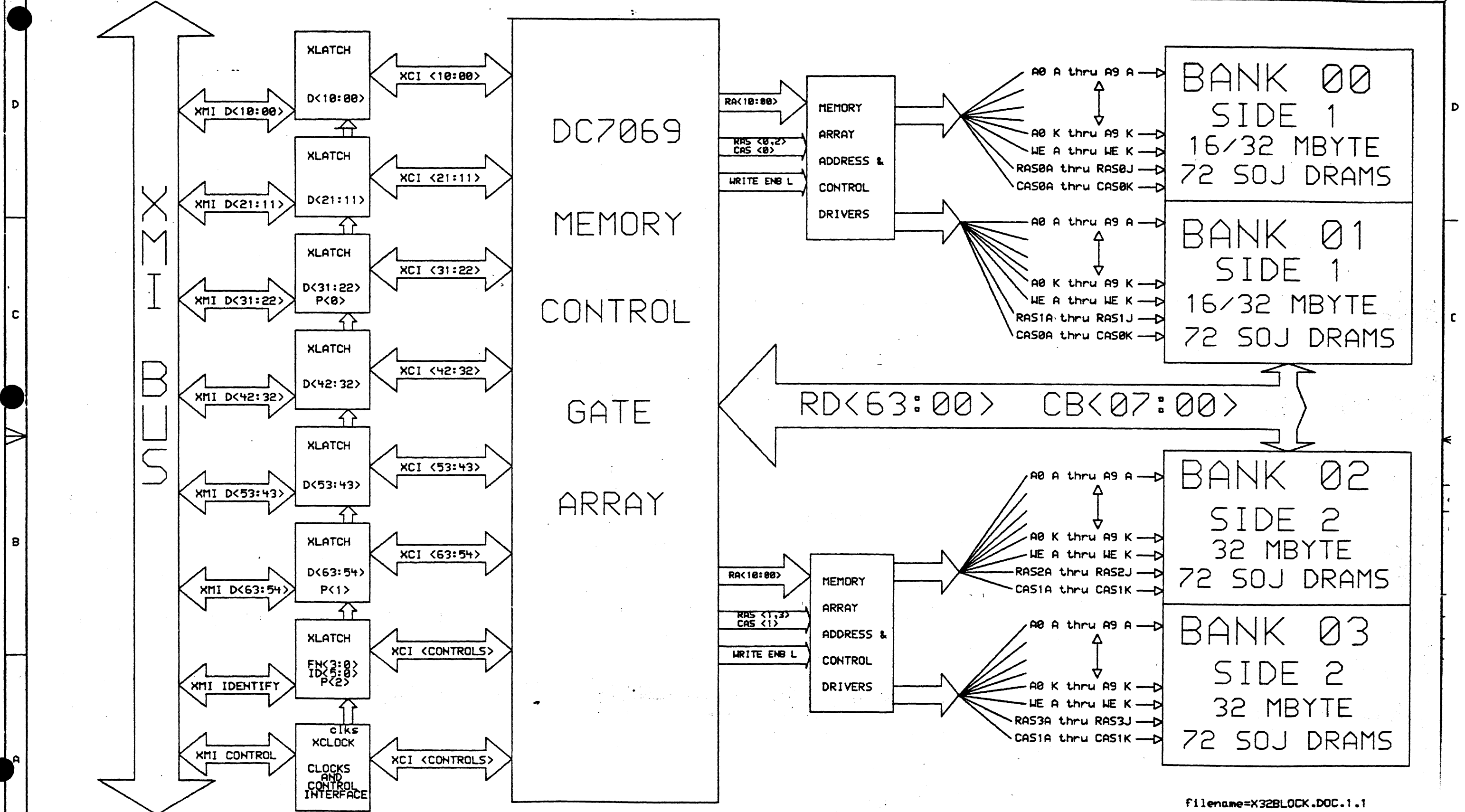
DRAWING NO.	IND. SFTS	PART NO.	DESCRIPTION	REVISIONS
K-CS-T2014-0-7	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-8	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-9	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-10	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-11	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-12	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-13	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-14	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-15	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-16	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-17	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-18	1		CIRCUIT SCHEMATIC	IA
K-CS-T2014-0-19	1		CIRCUIT SCHEMATIC	IA
K-PL-T2014-0-DBP	6		PARTS LIST	IA
K-PC-T2014-0-DBV			P.C. DESIGN DATA BASE	IB1
K-CS-T2014-0-DBX			SCHEMATIC DATA BASE	IA
K-BD-T2014-0-0	1		BLOCK DIAGRAM	IA
		5017241-01	ETCH CIRCUIT BOARD	IB1
K-DD-5017241-0-0	1		DRAWING DIRECTORY	IA

TITLE	SIZE	CODE	DOCUMENT NUMBER	REV
DISLIST	XMA 32 MBYTE		SHEET 2 OF 2	
	CMOS MEMORY	K DD	T2014-0-0	A

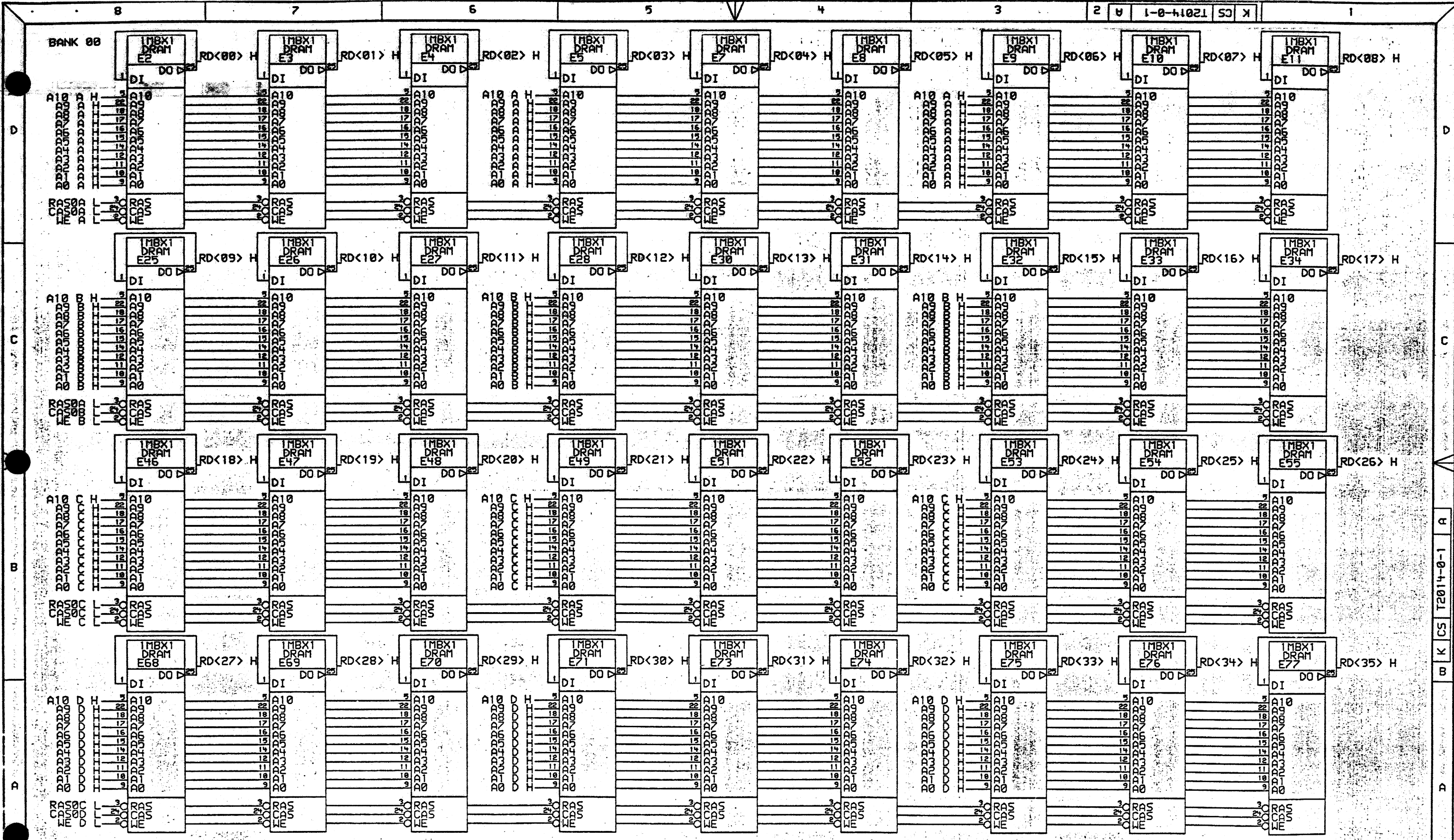
	INIT	PC01	PC02	PC03	PC04	PC05	PC06
T2014-AA	AX00	AX00	AX01	AX02	B01	B02	B02
T2014-BA	AX00	AX00	AX01	AX02	B01	B02	B02
K-DD-T2014-0-0	AX00	AX01	AX02	AX03	AX04	AX05	A
50-17241-01	B1	B1	B1	B1	B1	B1	B1
K-CS-T2014-0-1	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-2	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-3	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-4	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-5	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-6	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-7	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-8	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-9	AX05	AX06	AX06	AX06	AX06	AX06	A
K-CS-T2014-0-10	AX05	AX06	AX06	AX06	AX06	AX06	A
K-CS-T2014-0-11	AX05	AX06	AX07	AX07	AX07	AX08	A
K-CS-T2014-0-12	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-13	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-14	AX05	AX05	AX05	AX05	AX06	AX06	A
K-CS-T2014-0-15	AX05	AX05	AX05	AX05	AX06	AX06	A
K-CS-T2014-0-16	AX05	AX05	AX05	AX05	AX05	AX05	A
K-CS-T2014-0-17	AX06	AX06	AX06	AX06	AX06	AX06	A
K-CS-T2014-0-18	AX06	AX06	AX06	AX06	AX06	AX06	A
K-CS-T2014-0-19	AX06	AX06	AX06	AX06	AX06	AX06	A
K-BD-T2014-0-0	AX05	AX05	AX05	AX05	AX05	AX05	A
K-PL-T2014-0-DBP	AX02	AX03	AX04	AX04	AX05	AX06	A
E-UA-T2014-0-0	AX01	AX01	AX01	AX01	AX01	AX02	A

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	CHANGE NO. REV				LAST_MODIFIED=Thu Oct 8 14:40:24 1987	M. BERKSON OCT 1987	1 OF 1	DRAWING DIRECTORY
					TOP DOCUMENT NUMBER B-DD-T2014-0-0	SIZE K DD	NUMBER T2014-0-0	REV. A



filename=X32BLOCK.DOC.1.1



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REVISION	DRAWING	
CHK CHANGE NO REV	X32	X32
	LAST_MODIFIED=Thu Feb 11 09:44:30 1988	

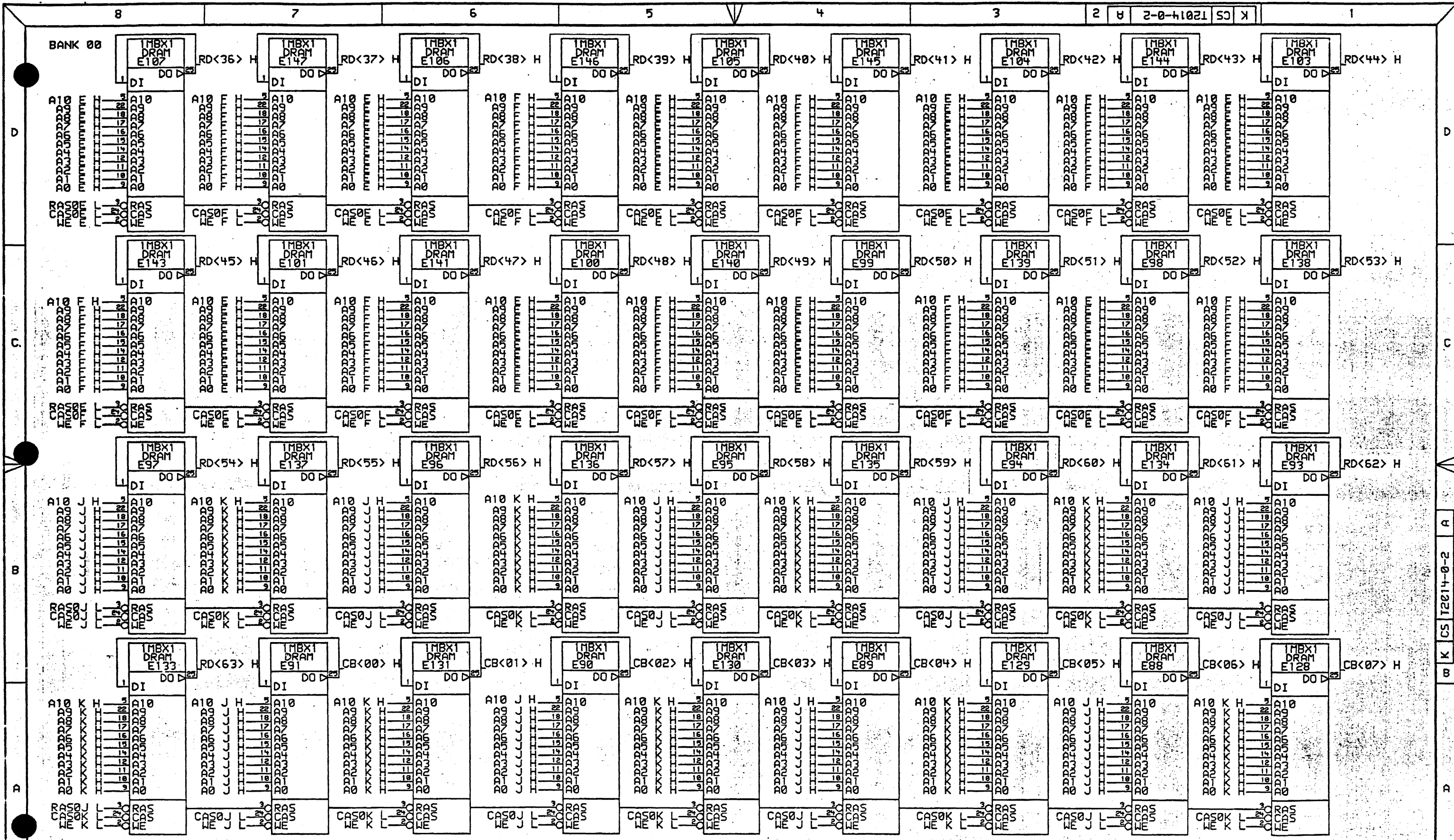
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digitai

DRN. D. SOVIE OCT 1987
 CHK. M. BERKSON OCT 1987

ENG. J. RANTALA OCT 1987
 BOARD LOCATION: OF
 SHEET

TITLE: X32.LOGIC.1.1 BANK 00
 NUMBER T2014-0-1
 SIZE CODE K CS
 REV. A



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REVISION	DRAWING
CHK CHANGE NO. REV.	

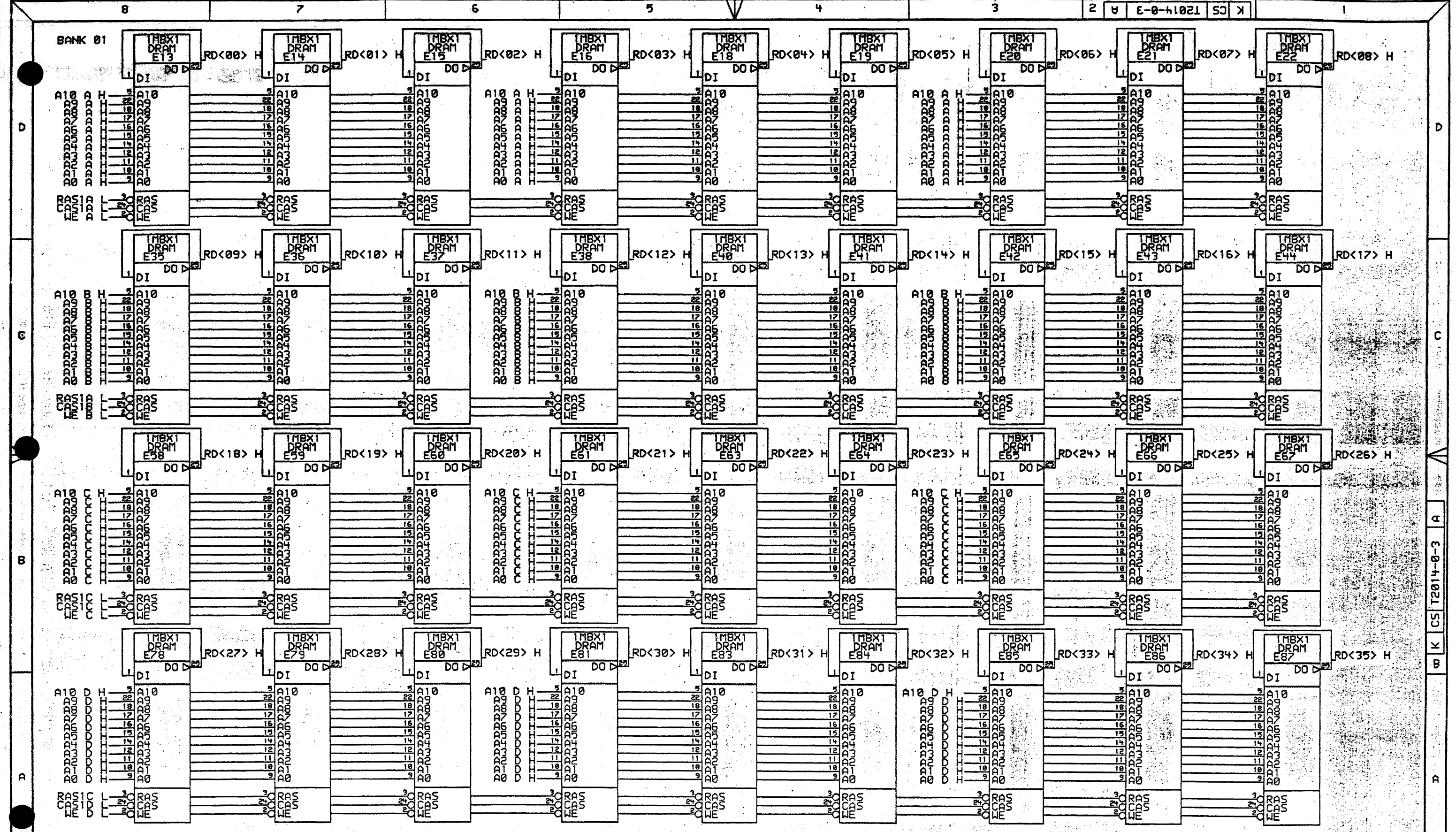
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LAST_MODIFIED=Thu Feb 11 09:47:40 1988

DESIGNED BY: D. SOVIE	DATE: OCT 1987	ENGR: J. RANTALA	DATE: OCT 1987
CHECKED BY: M. BERKSON	DATE: OCT 1987	BOARD LOCATION:	
USRA:	FIRST USED ON OPTION MODEL: M562A	SHEET:	

TITLE:	X32.LOGIC.1.2
NUMBER:	T2014-0-2
REV.:	A
SIZE:	K CS

2-0-4-1021 CS K 1
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 CS 12014-0-2
 B
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 C
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CHK	CHANGE NO	REV	

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DRN. D. SOVIE OCT 1987
 CHK. H. BERKSON OCT 1987

USRA:
 FIRST USED ON OPTION MODEL: M562A

ENG. J. RANTALA OCT 1987
 BOARD LOCATION: OF

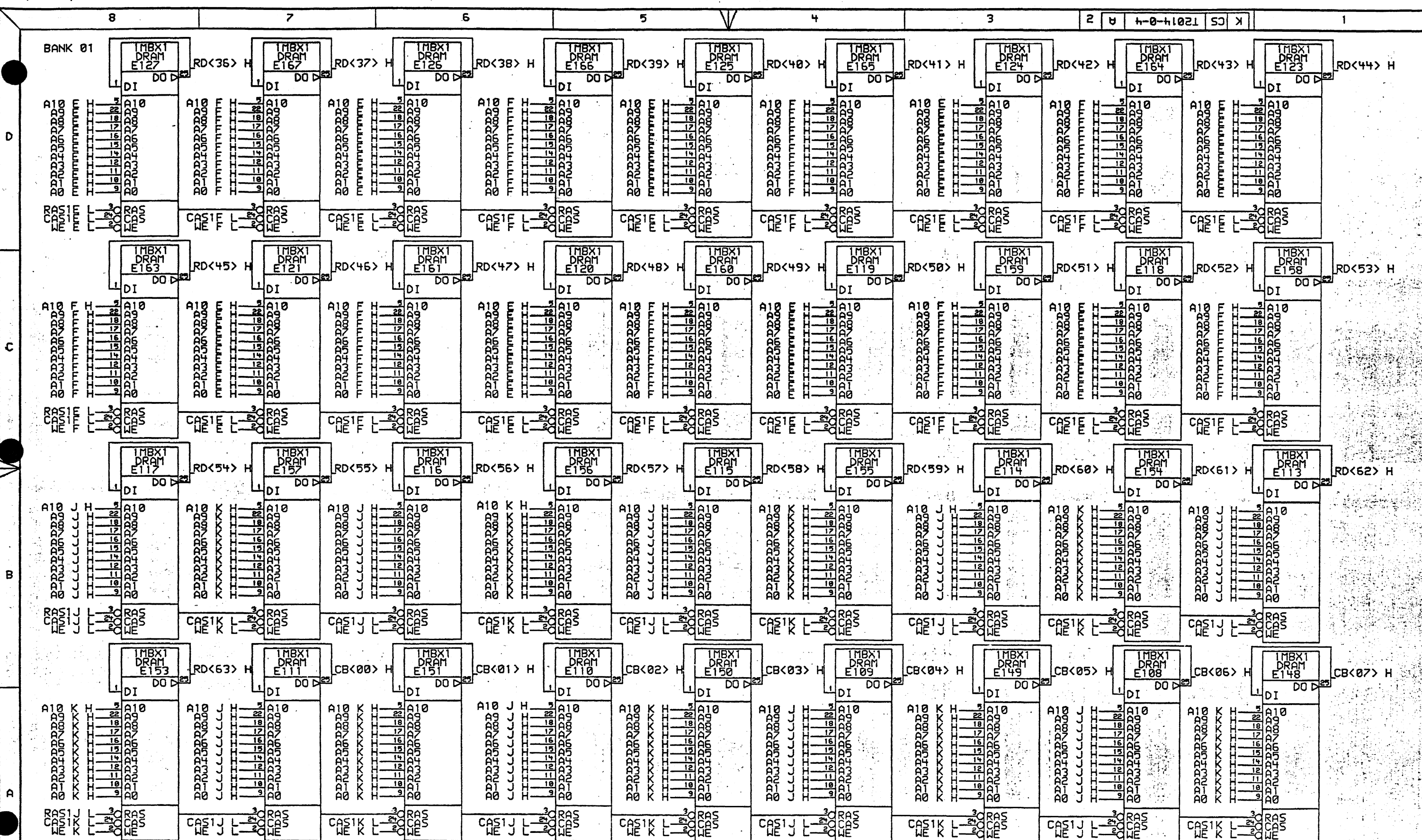
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 B-DD-T2014-0-0

TITLE: X32 LOGIC.1.3 BANK 01

NUMBER T2014-0-3 REV. A

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REVISION	DRAWING
CHK CHANGE NO REV	

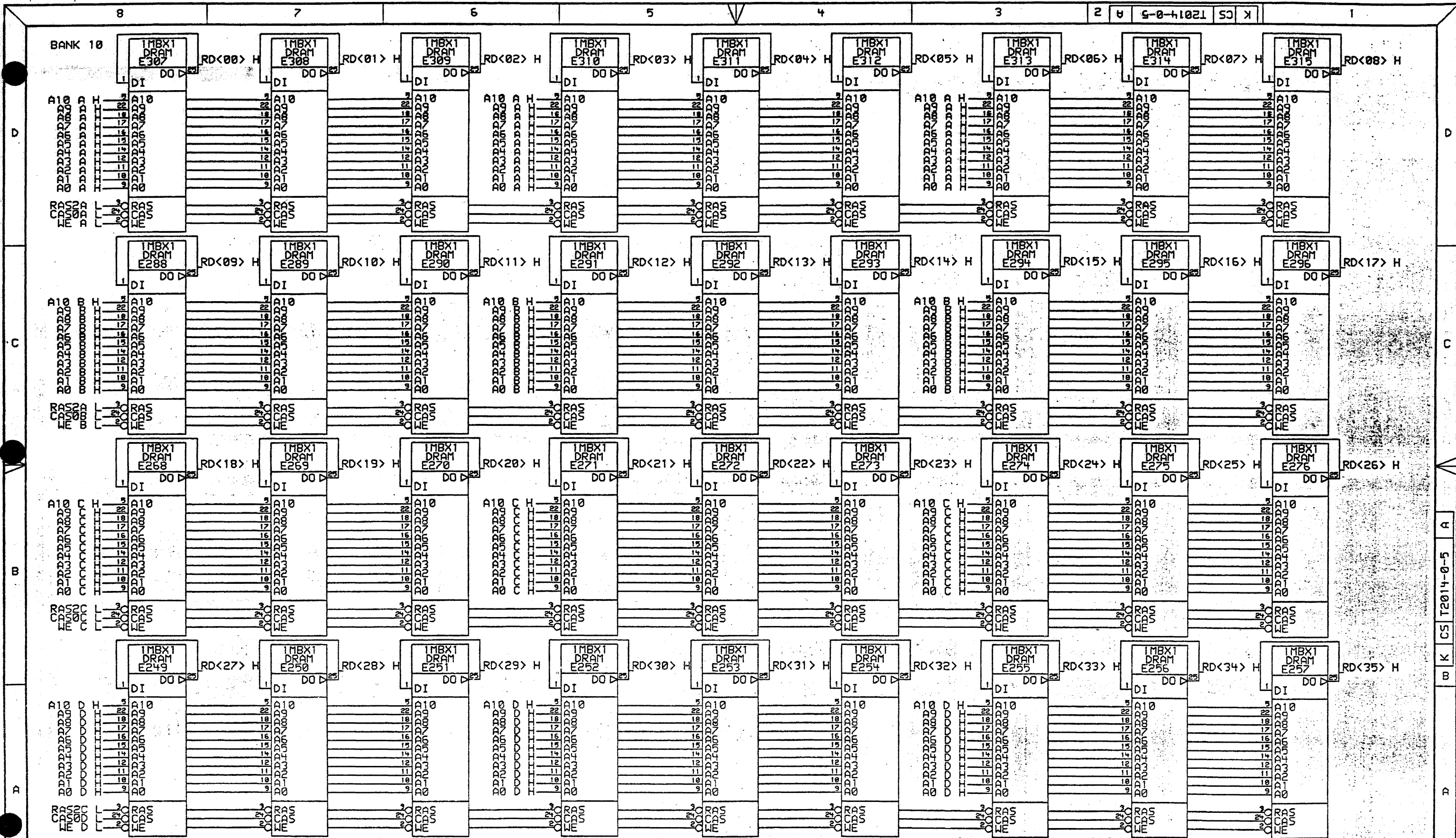
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LAST_MODIFIED=Thu Feb 11 09:53:37 1988

DESIGNED BY: D. SOVIE	DATE: OCT 1987
CHECKED BY: M. BERKSON	DATE: OCT 1987
USRA:	FIRST USED ON OPTION MODEL: M562A

ENG. J. RANTALA	DATE: OCT 1987
BOARD LOCATION:	
SHEET:	
TOP DOCUMENT NUMBER:	B-DD-T2014-0-0

TITLE:	X32.LOGIC.1.4
	BANK 01
SIZE CODE:	K CS
NUMBER:	T2014-0-4
REV.:	A



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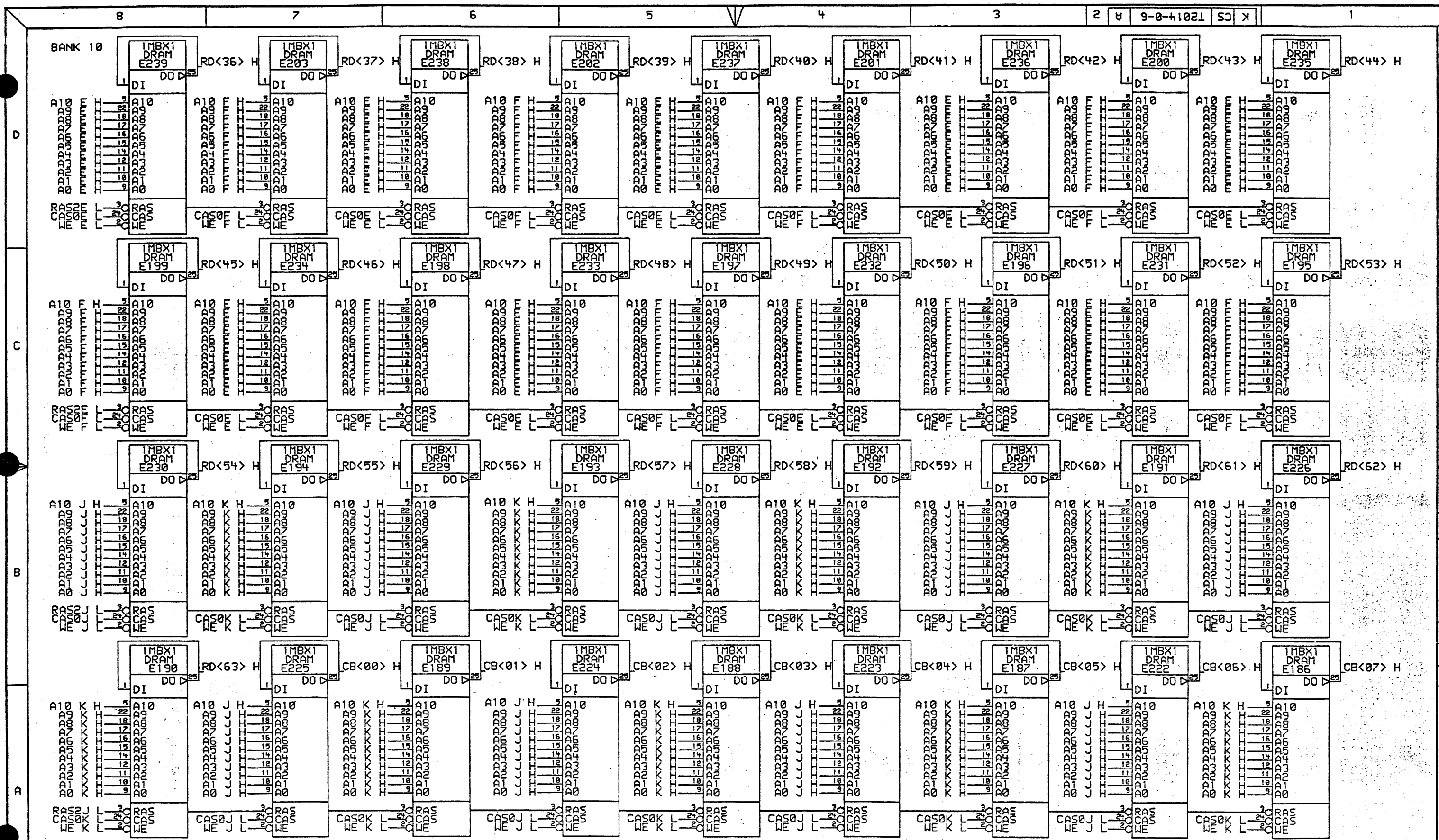
REVISION	DRAWING
CHK CHANGE NO. REV	

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LAST_MODIFIED=Thu Feb 11 09:56:28 1988

DESIGNED BY: D. SOVIE	DATE: OCT 1987	ENG. RANTALA	DATE: OCT 1987
CHECKED BY: H. BERKSON	DATE: OCT 1987	BOARD LOCATION:	OF
USRA:	FIRST USED ON OPTION MODEL: M552A	SHEET	OF

TITLE:	X32.LOGIC.1.5
	BANK 10
SIZE	CODE
K	CS
NUMBER	REV.
T2014-0-5	A



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 LAST_MODIFIED=Thu Feb 11 09:59:02 1988

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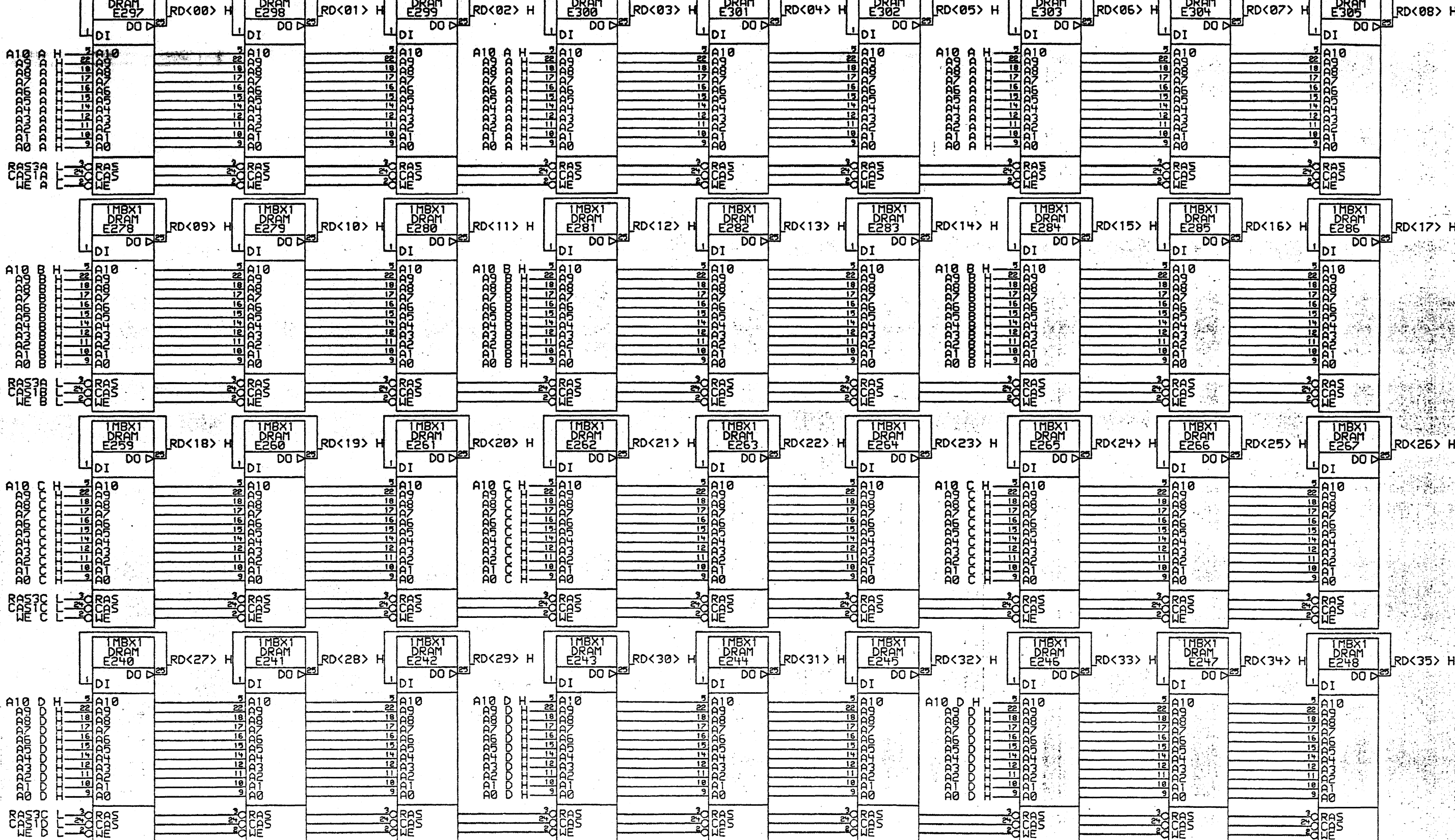
DIGITAL
 D. SOVIE OCT 1987
 H. BERKSON OCT 1987

J. RANTALA OCT 1987
 BOARD LOCATION:
 SHEET _____ OF _____
 TOP DOCUMENT NUMBER:
 B-DD-T2014-0-0

TITLE: X32.LOGIC.1.6 BANK 10
 SIZE CODE K CS
 NUMBER T2014-0-6
 REV. A

m k CS T2014-0-6 A

BANK 11



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REV	CHK	CHANGE NO	REVISION	DRAWING

LAST_MODIFIED=Thu Feb 11 10:01:57 1988

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digital
 FIRST USED ON OPTION MODEL M1562a

D. SOVIE OCT 1987
 M. BERKSON OCT 1987

J. RANTALA OCT 1987
 BOARD LOCATION SHEET OF
 TOP DOCUMENT NUMBER: B-DD-T2014-0-0

TITLE: X32.LOGIC.1.7 BANK 11
 SIZE CODE: K CS
 NUMBER: T2014-0-7
 REV. A

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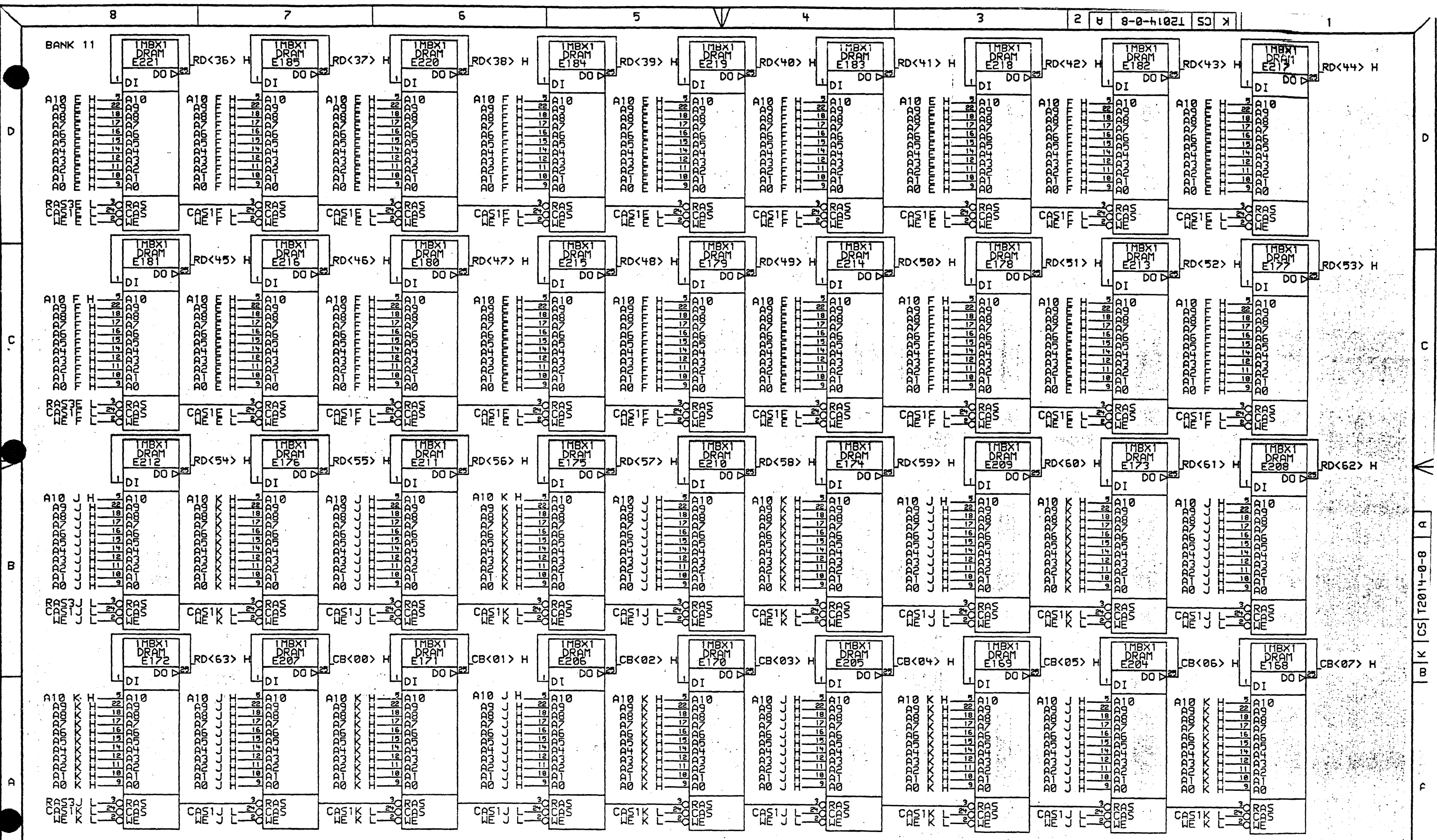
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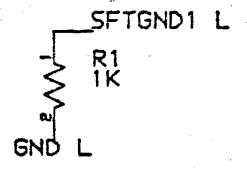
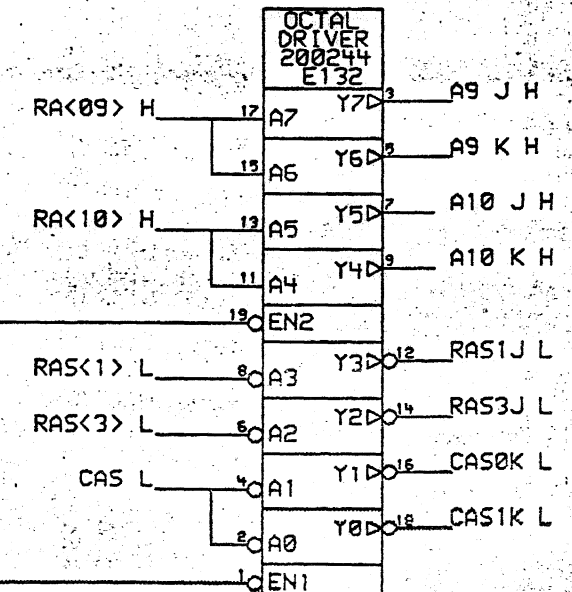
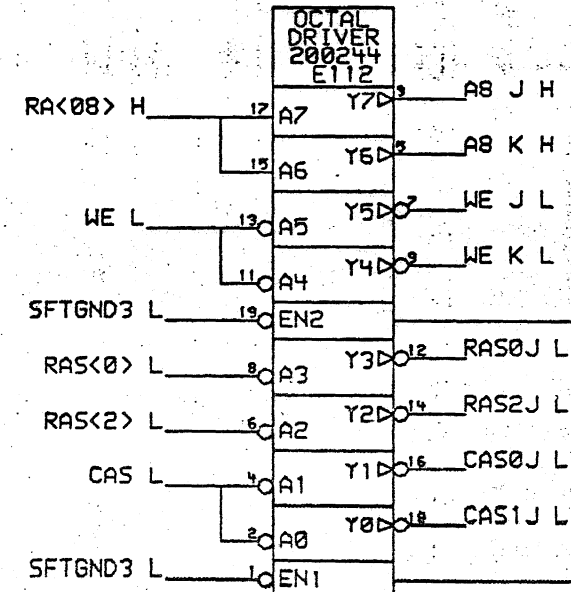
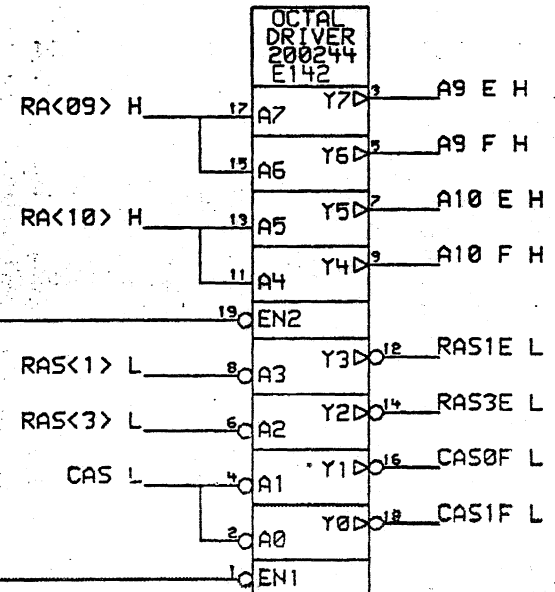
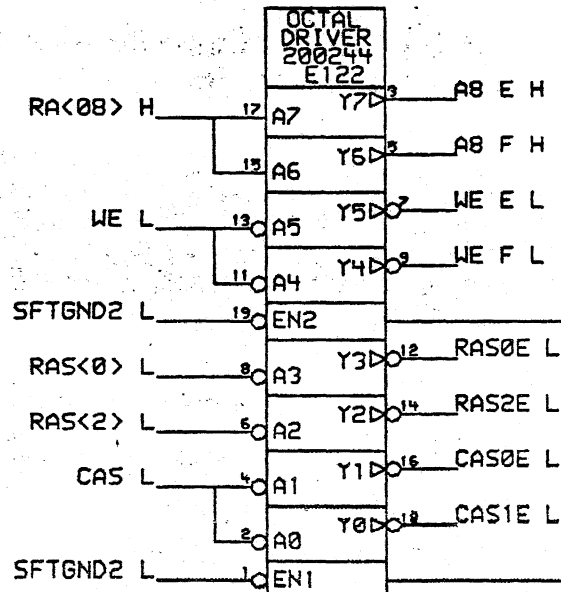
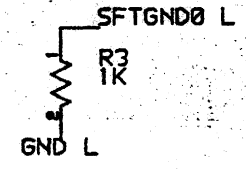
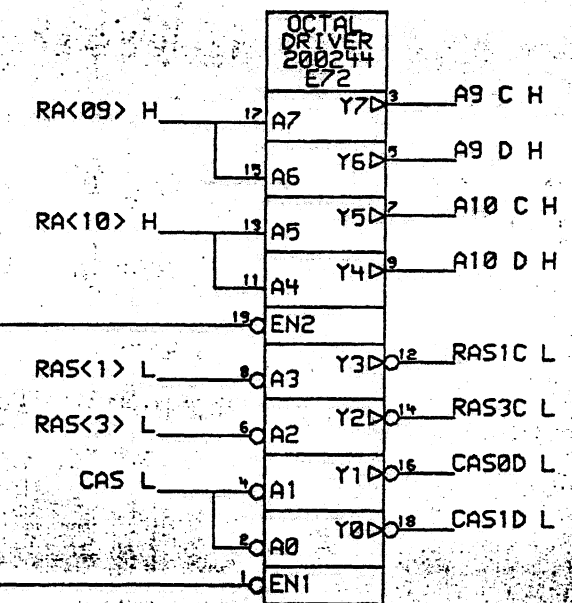
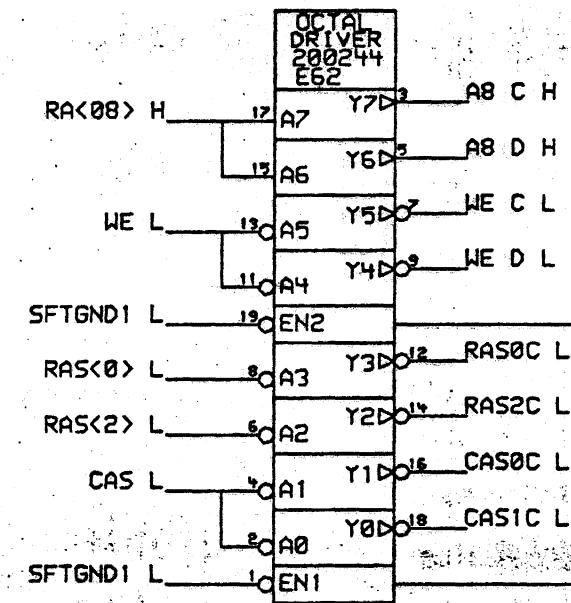
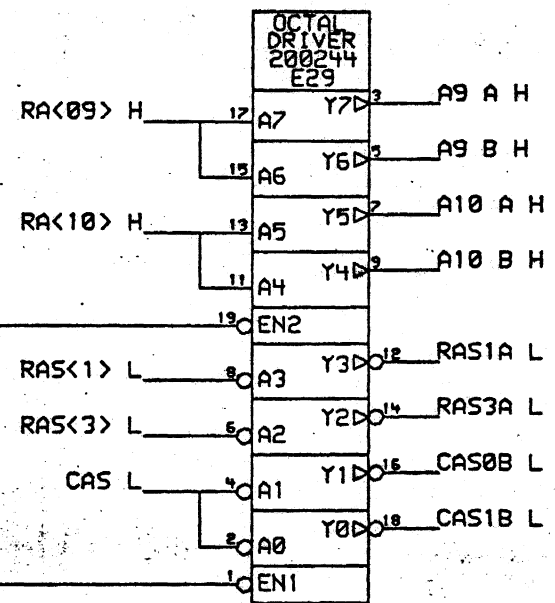
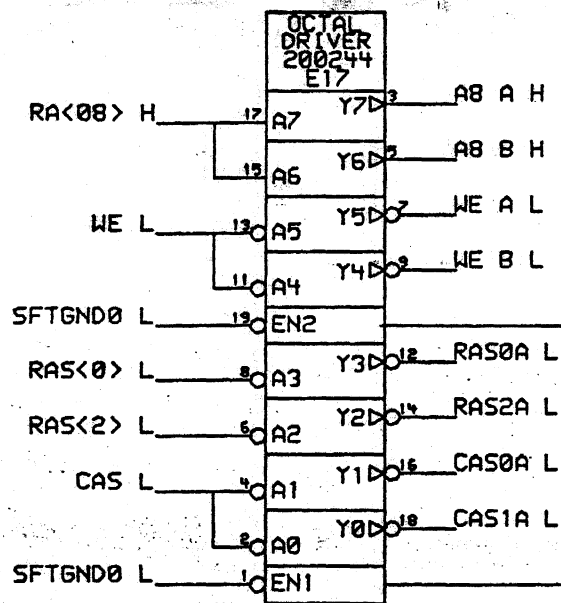
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REVISION	DRAWING
CHK CHANGE NO	REV
LAST_MODIFIED=Thu Feb 11 10:04:30 1988	

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DESIGNED BY: D. SOVIE	DATE: OCT 1987	ENGR: J. RANTALA	DATE: OCT 1987
CHECKED BY: A. BERKSON	DATE: OCT 1987	DESIGN LOCATION:	
USRA:		FOR DOCUMENT NUMBER:	
FIRST USED ON OPTION MODEL:	MS628	B-DD-12014-0-0	

TITLE:	X32 LOGIC.1.8 BANK 11
SIZE:	K CS
NUMBER:	T2014-0-8
REV:	A



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REVISION	DRAWING
CHK CHANGE NO REV	

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digital
 D. SOVIE OCT 1987
 H. BERKSON OCT 1987

ENG. J. RANTALA OCT 1987
 BOARD LOCATION: SHEET OF
 TOP DOCUMENT NUMBER: B-DD-T2014-0-0

TITLE: X32 LOGIC 1.9 ARRAY DRIVERS
 SIZE CODE NUMBER REV. K CS T2014-0-9 A

D
C
A
CS T2014-0-9
K
B
A

8

7

6

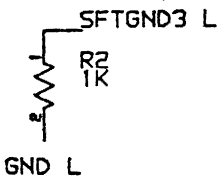
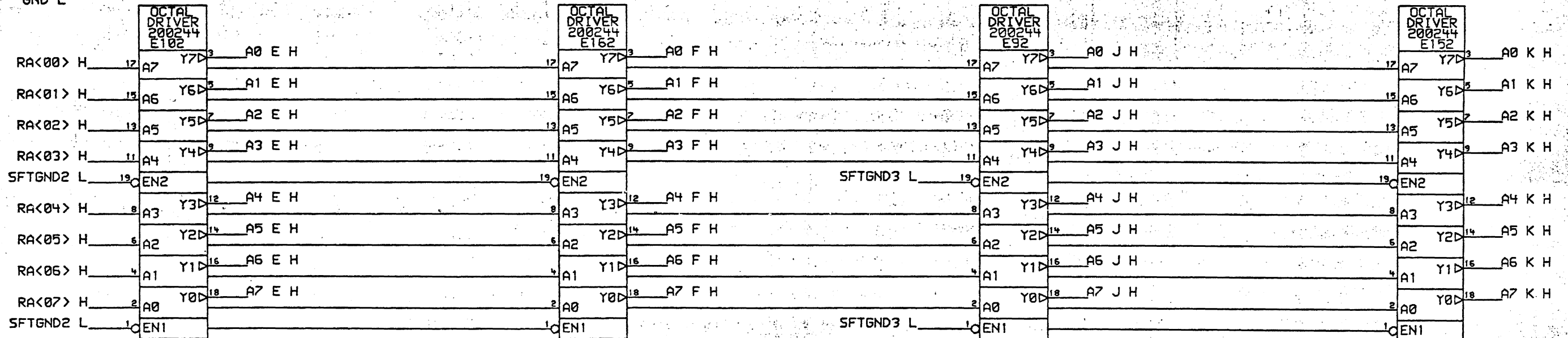
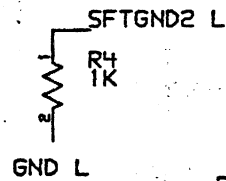
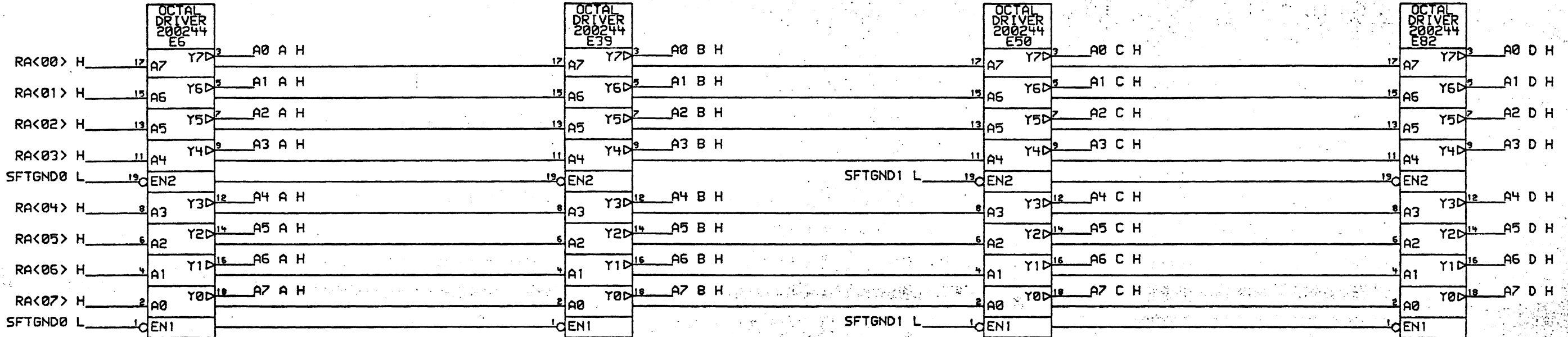
5

4

3

2 K CS 12014-0-10

1



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REVISION	DRAWING
CHK CHANGE NO. REV	LAST_MODIFIED=Thu Feb 11 10:06:57 1988

DIGITAL CONFIDENTIAL

DRN. D. SOVIE	DATE OCT 1987	ENR J. RANTALA	DATE OCT 1987
CHK D. BERKSON	DATE OCT 1987	BOARD LOCATION:	SHEET
USRA:	FIRST USED ON OPTION MODEL: 11562A	TOP DOCUMENT NUMBER:	B-DD-12014-0-0

TITLE: X32.LOGIC.1.10	ARRAY DRIVERS
SIZE CODE K CS	NUMBER T2014-0-10
REV. A	

A B K CS T2014-0-10

8

7

6

5

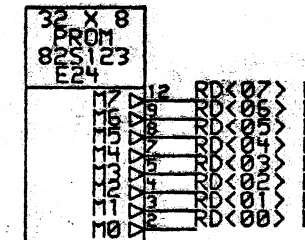
4

3

2

1

23-402A1-01 = T2014-AA
 23-403A1-01 = T2014-BA



XMI NODE ID <3> H18 A4
 XMI NODE ID <2> H17 A3
 XMI NODE ID <1> H15 A2
 XMI NODE ID <0> H14 A1
 PROM ADDRESS 0 H13 A0
 ENABLE PROM L 19 EN

E57 XMA GATE ARRAY DC7069B

(RAS) RS<3:0> > RAS<3:0> L
 (CAS) CS > B11 CAS L
 (WRITE ENABLE) WE > A11 WE L
 RAM DATA, ADDRESS & CONTROL
 (RAM ADDR) RA<10:00> > ADDR<10:00> H
 (RAM DATA) RD<63:32> > RD<63:32> H
 (RAM DATA) RD<31:00> > RD<31:00> H
 (CHECK BITS) CB<7:0> > CB<07:00> H
 (PROM OUTPUT CONTROL) TC > V16 ENABLE PROM L
 (PROM ADDR 0) PC > U16 PROM ADDRESS 0 H

XCI DATA & CONTROL

XCI D<63:00> H > XD<63:00> (XCI DATA)
 XCI P<2:0> H > PA<2:0> (XCI PARITY)
 XCI F<3:0> H > FN<3:0> (XCI FUNC) XCI BI_DIR
 XCI ID<5:0> H > ID<5:0> (XCI ID)

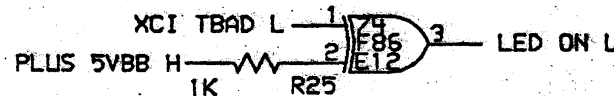
XCI CNF ERR L > B10 CE (CNF ERR OUT)
 XCI RCNF L > D9 CI (CNF IN)
 XCI GRANT L > R13 C2 > XG (XCI GRANT) XCI INPUTS
 XCI DC LO L > 30.1 F1 > DL (DC LO)
 XCI RRESET L > P1 > XR (XCI RESET)

XCI XMIT ERR L > B1 XE (XCI TRANS ERROR)
 XCI TCNF<0> L > I1 CO (CNF OUT)
 XCI TSUP L > D1 AS (ARB SUP)
 XCI TBAD L > M1 XB (XCI BAD)
 XCI TFAULT L > L1 XF (XCI FAULT) XCI OUTPUTS
 XMI RES REQ L > R11 E1 > AR (ARB REQ)
 XCI HOLD EN H > 49.9 C1 > XH (XCI HOLD)
 XCI NULL EN H > R1 > XN (XCI NULL)
 XCI GC12 EN H > M1 > GC (GC12)

CLOCK INPUTS

XCI C12 H > R5 20.0 H4 > KA (CK12)
 XCI C23 H > R6 20.0 J4 > KB (CK23)
 XCI C34 H > R7 20.0 K4 > KC (CK34)
 XCI C45 H > R8 20.0 L4 > KD (CK45)
 XCI C61 H > R10 20.0 M4 > KF (CK61)

GND L > 1 > TP14 > TEST ENABLE TEST TEST I/O < TS<7:0> H



PLUS 5VBB H
 XCI TLOCKOUT L > R15 1K
 TS<0> H > R17 1K
 TS<1> H > R18 1K
 TS<2> H > R19 1K
 TS<3> H > R20 1K
 XCI TSPARE0 L > R21 1K
 XCI TRESET L > R22 1K
 XCI TAC LO L > R23 1K
 XCI RRESET L > C344 220pf > GND L

TP1 'O GND L
 TP2 'O GND L
 TP3 'O GND L
 TS<2> H > TP4 (VIS SEL 0)
 TS<0> H > TP5 (VIS SEL 1)
 TS<1> H > TP6 (VIS SEL 2)
 TS<3> H > TP7 (VIS SEL 3)
 TS<5> H > TP8 (VIS 0)
 TS<4> H > TP9 (VIS 1)
 TS<7> H > TP10 (VIS 2)
 TS<6> H > TP11 (VIS 3)
 PROM ADDRESS 0 H > TP12 (VIS 4)
 TP13 'O GND L
 XCI TCNF<0> L > XCI TCNF<1> L
 PLUS 5VBB H > D102 470 R24 > GND L
 GREEN
 BATTERY BACKUP POWER INDICATOR

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REVISION	DRAWING
CHK CHANGE NO. REV	

DIGITAL CONFIDENTIAL
 LAST_MODIFIED=Thu Feb 11 10:08:11 1988

digital
 D. SOVIE OCT 1987
 H. BERKSON OCT 1987
 FIRST USED ON OPTION MODEL: M562A

J. RANTALA OCT 1987
 BOARD LOCATION: OF
 SHEET
 TOP DOCUMENT NUMBER: B-DD-T2014-0-0

TITLE: X32 LOGIC.1.11 MEMORY CONTROL GATE ARRAY
 SIZE CODE NUMBER REV. A
 K C5 T2014-0-11

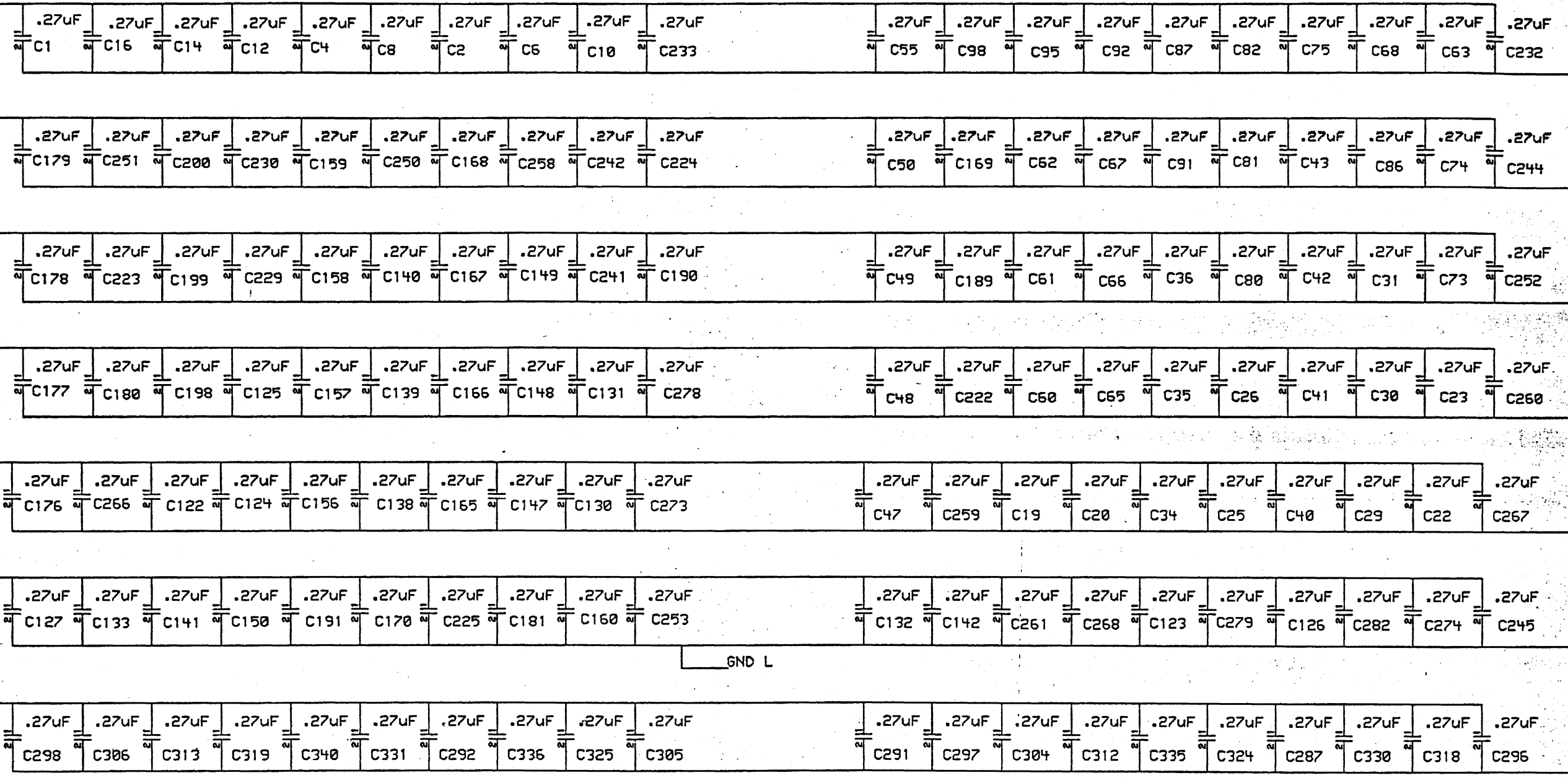
A B K C5 T2014-0-11 A

8 7 6 5 4 3 2 1

BANK 00 DECOUPLING CAPS

BANK 01 DECOUPLING CAPS

PLUS 5VBB H



GND L

BULK CAPS



GND L

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	TOP DOCUMENT NUMBER: B-DD-T2014-0-0		SIZE: K CODE: CS NUMBER: T2014-0-12 REV: A						

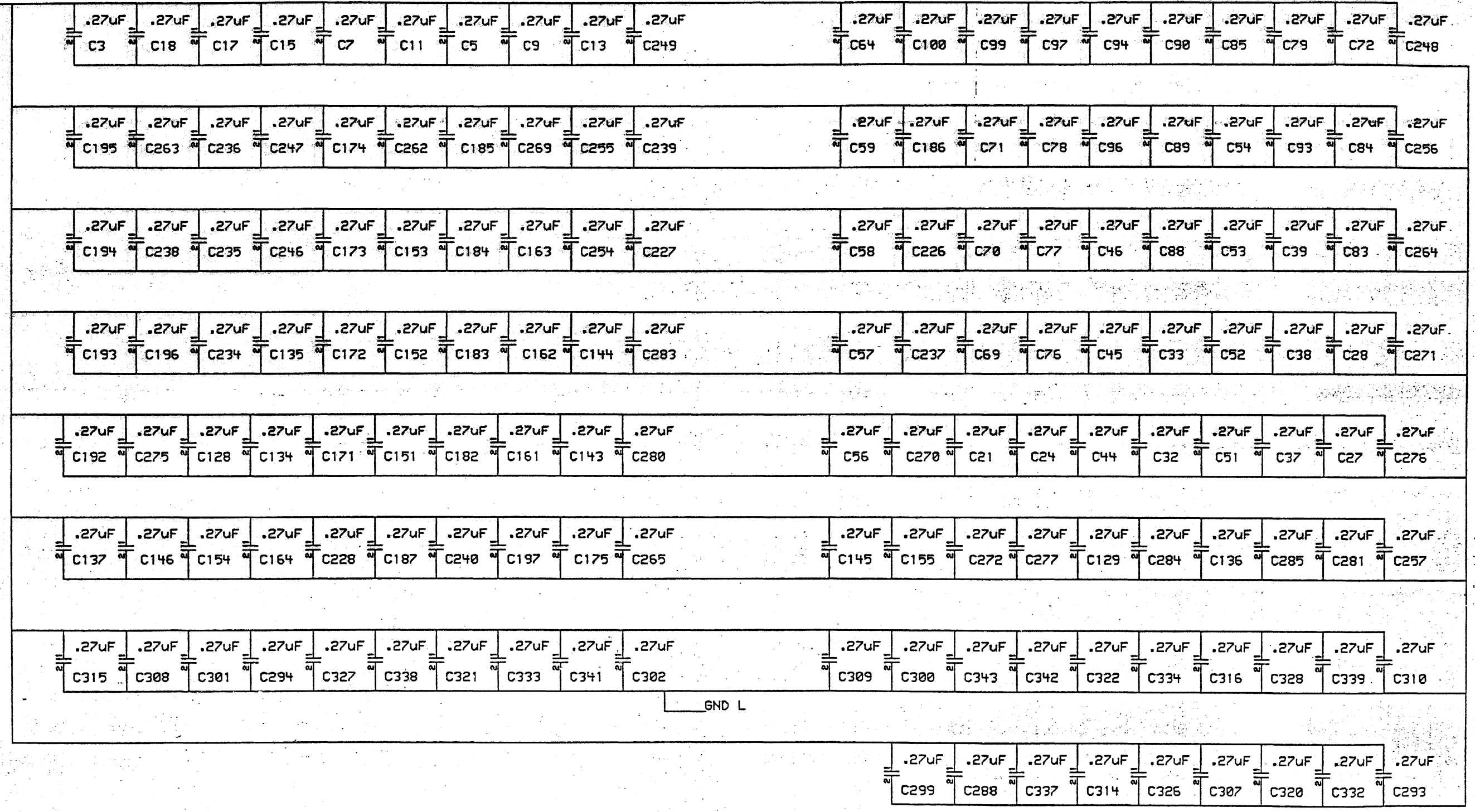
8 7 6 5 4 3 2 1

A B K CS T2014-0-12

PLUS 5VBB H

BANK 10 DECOUPLING CAPS

BANK 11 DECOUPLING CAPS



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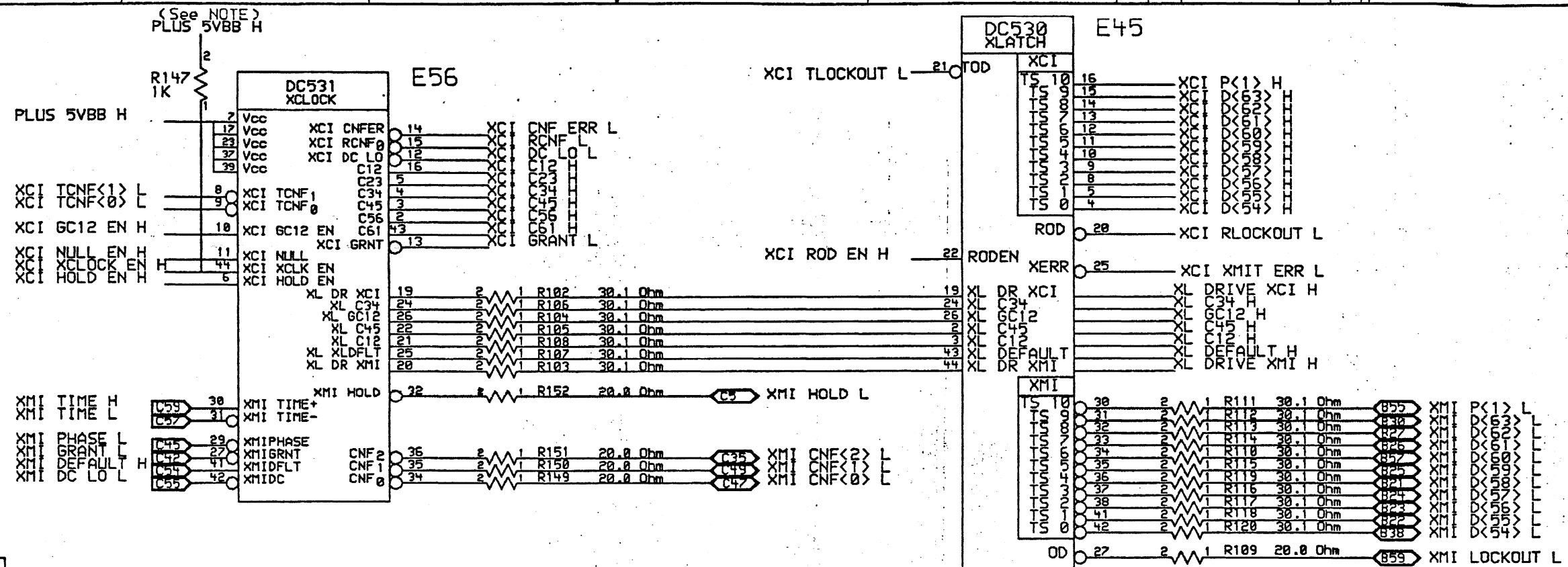
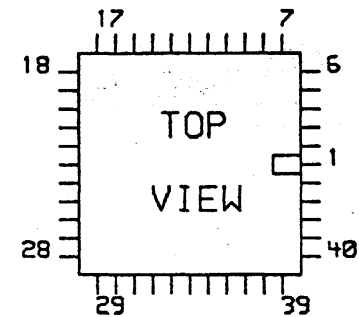
REVISION	CHK	CHANGE NO.	REV

DRAWING
 LAST_MODIFIED=Thu Feb 11 10:11:48 1988
 DIGITAL CONFIDENTIAL

digital
 DESIGNED BY: b. SOVIE
 CHECKED BY: M. BERKSON
 DATE: OCT 1987
 DATE: OCT 1987
 USRA: FIRST USED ON OPTION/MODEL: MS62A

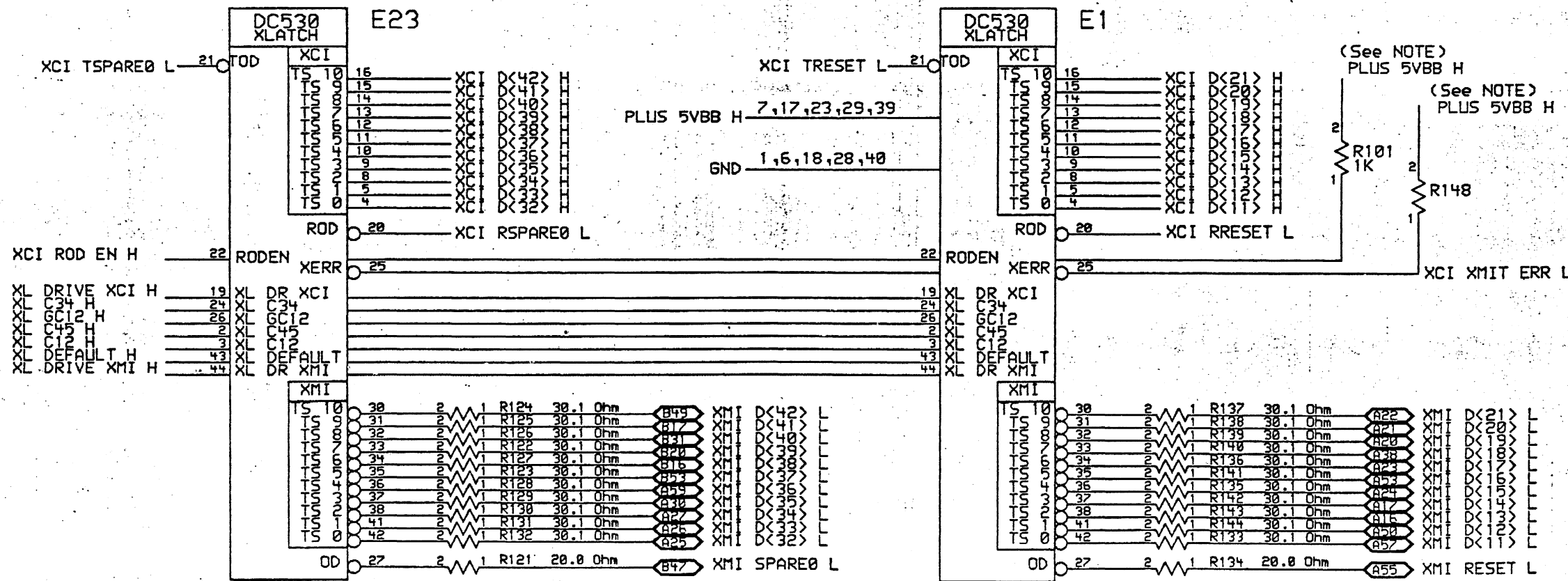
ENG. J. RANTALA
 BOARD LOCATION: SHEET OF
 TOP DOCUMENT NUMBER: B-DD-T2014-0-0

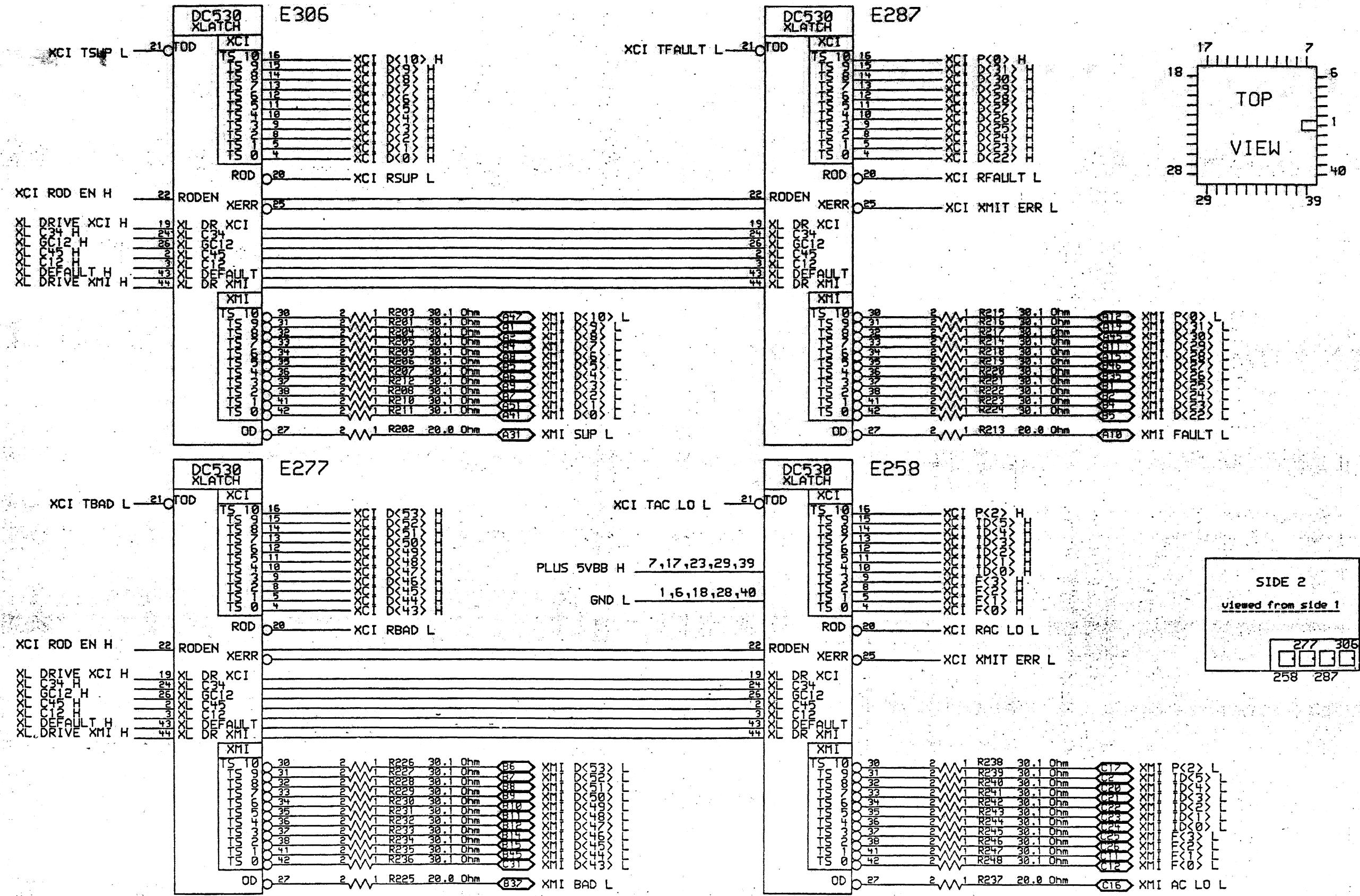
TITLE: X32 LOGIC 1.13
 MEMORY ARRAY DECOUPLING
 SIZE CODE NUMBER REV.
 K CS T2014-0-13 A



NOTE

COMPONENT LOCATION	POWER PINS		
	+5V H	+5VBB	GND
XLOCK E11	7 17 23 37 39	1 18 28 33 38 48	
XLATCH E12-E14 E21-E24	7 17 23 29 39	1 6 18 28 48	
R101	2		
R147	2		
R148	2		
NON MEMORIES			
	+5V H	+5VBB	GND
XLOCK E11	7 17 23 37 39	1 18 28 33 38 48	
XLATCH E12-E14 E21-E24	7 17 23 29 39	1 6 18 28 48	
R101	2		
R147	2		
R148	2		





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REVISION	DRAWING
CHK CHANGE NO. REV	

DIGITAL CONFIDENTIAL

Thu Feb 11 10:15:56 1988

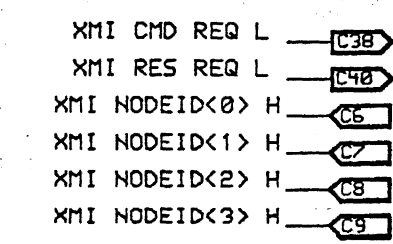
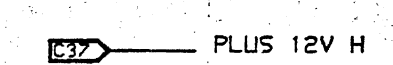
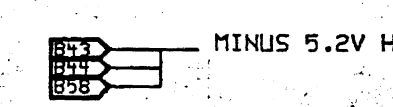
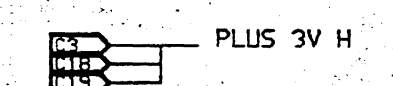
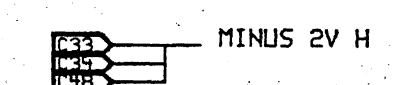
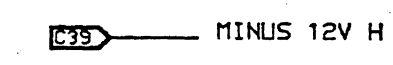
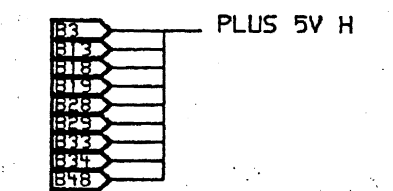
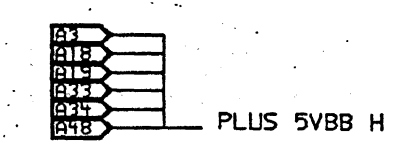
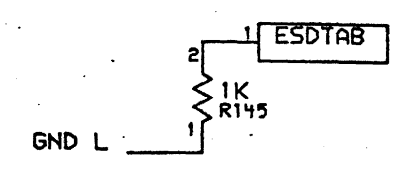
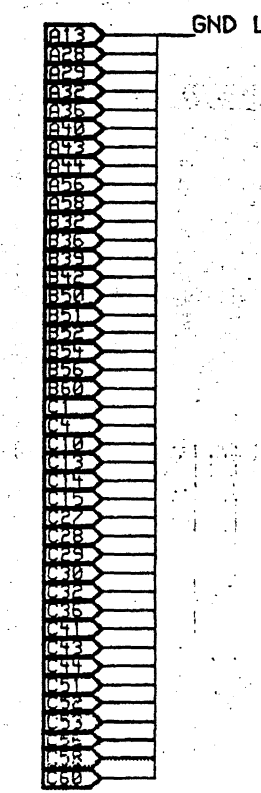
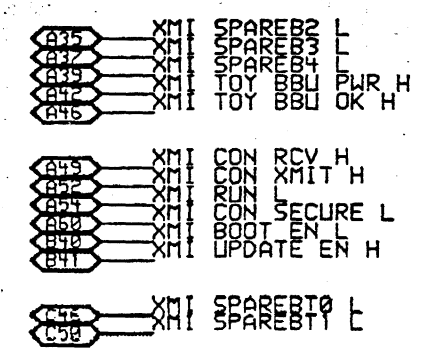
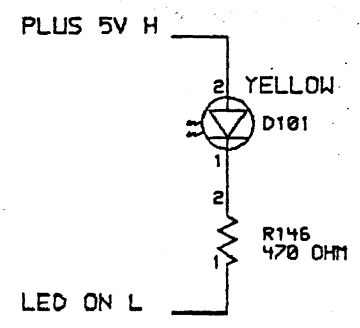
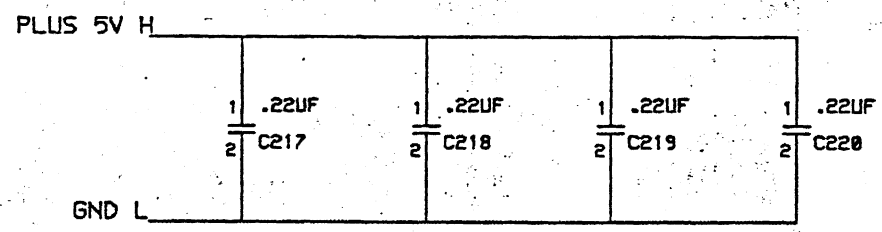
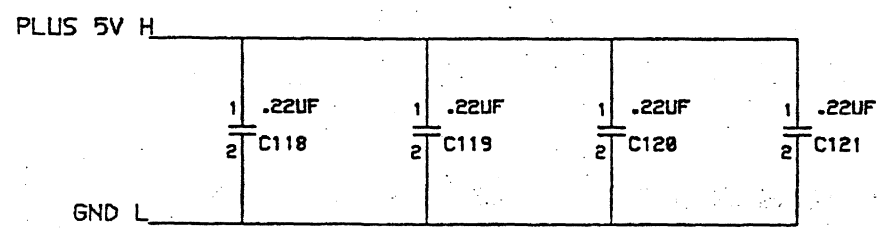
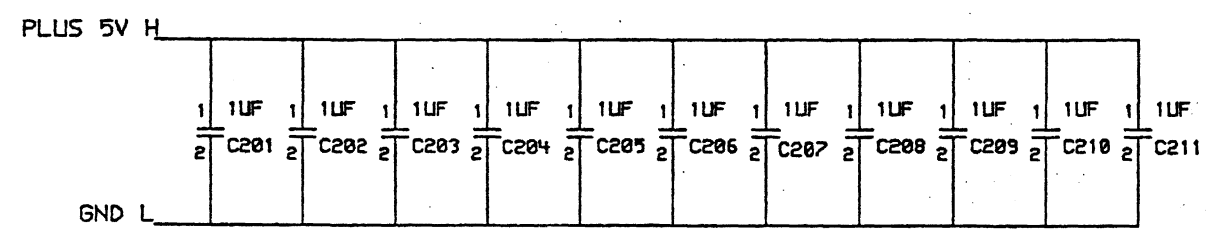
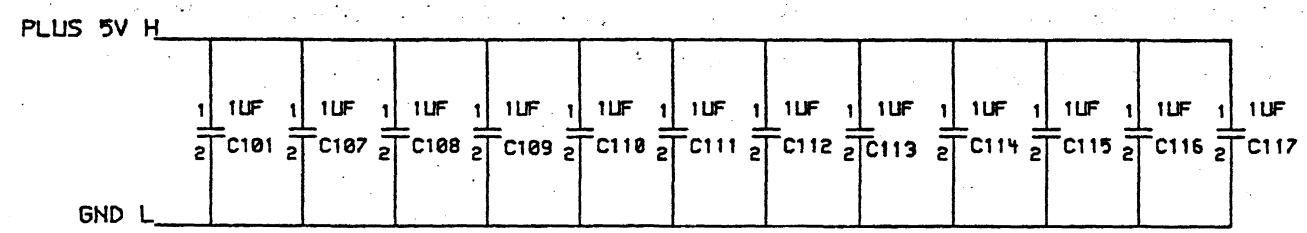
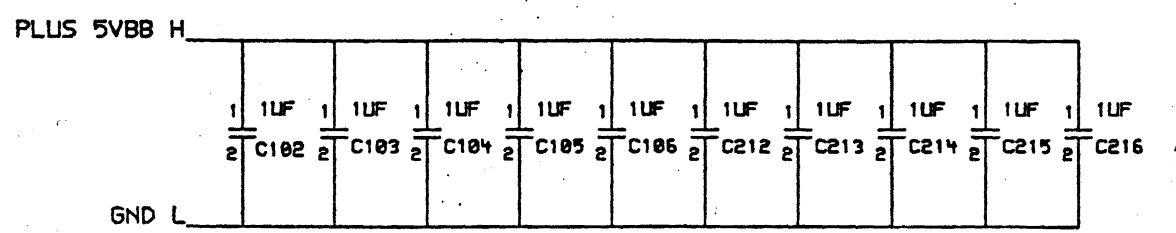
digital

ENR. D. SOVIE OCT 1987
 ENR. J. RANTALA OCT 1987
 SHEET OF

TITLE: X32 LOGIC 1.15
 XMI CORNER

SIZE	CODE	NUMBER	REV.
K	CS	T2014-0-15	A

- | | | | |
|------------|-----|------------|-----|
| USER D1 H | D1 | USER E1 H | E1 |
| USER D2 H | D2 | USER E2 H | E2 |
| USER D3 H | D3 | USER E3 H | E3 |
| USER D4 H | D4 | USER E4 H | E4 |
| USER D5 H | D5 | USER E5 H | E5 |
| USER D6 H | D6 | USER E6 H | E6 |
| USER D7 H | D7 | USER E7 H | E7 |
| USER D8 H | D8 | USER E8 H | E8 |
| USER D9 H | D9 | USER E9 H | E9 |
| USER D10 H | D10 | USER E10 H | E10 |
| USER D11 H | D11 | USER E11 H | E11 |
| USER D12 H | D12 | USER E12 H | E12 |
| USER D13 H | D13 | USER E13 H | E13 |
| USER D14 H | D14 | USER E14 H | E14 |
| USER D15 H | D15 | USER E15 H | E15 |
| USER D16 H | D16 | USER E16 H | E16 |
| USER D17 H | D17 | USER E17 H | E17 |
| USER D18 H | D18 | USER E18 H | E18 |
| USER D19 H | D19 | USER E19 H | E19 |
| USER D20 H | D20 | USER E20 H | E20 |
| USER D21 H | D21 | USER E21 H | E21 |
| USER D22 H | D22 | USER E22 H | E22 |
| USER D23 H | D23 | USER E23 H | E23 |
| USER D24 H | D24 | USER E24 H | E24 |
| USER D25 H | D25 | USER E25 H | E25 |
| USER D26 H | D26 | USER E26 H | E26 |
| USER D27 H | D27 | USER E27 H | E27 |
| USER D28 H | D28 | USER E28 H | E28 |
| USER D29 H | D29 | USER E29 H | E29 |
| USER D30 H | D30 | USER E30 H | E30 |
| USER D31 H | D31 | USER E31 H | E31 |
| USER D32 H | D32 | USER E32 H | E32 |
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| USER D38 H | D38 | USER E38 H | E38 |
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| USER D41 H | D41 | USER E41 H | E41 |
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| USER D46 H | D46 | USER E46 H | E46 |
| USER D47 H | D47 | USER E47 H | E47 |
| USER D48 H | D48 | USER E48 H | E48 |
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| USER D59 H | D59 | USER E59 H | E59 |
| USER D60 H | D60 | USER E60 H | E60 |



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REVISION	
CHK CHANGE NO. REV	

DRAWING
Thu Feb 11 10:18:38 1988

DIGITAL CONFIDENTIAL

digital
D. SOVIE OCT 1987
A. BERKSON OCT 1987
MS62A

ENG. RANTALA OCT 1987
BOARD LOCATION: OF
TOP DOCUMENT NUMBER: B-DD-T2014-0-0

TITLE: X32 LOGIC 1.16 XMI CORNER
SIZE CODE K CS
NUMBER T2014-0-16
REV. A

A B K CS T2014-0-16 A

NOTE: For use as a diagnostic aid only.

EXTEND_CARD

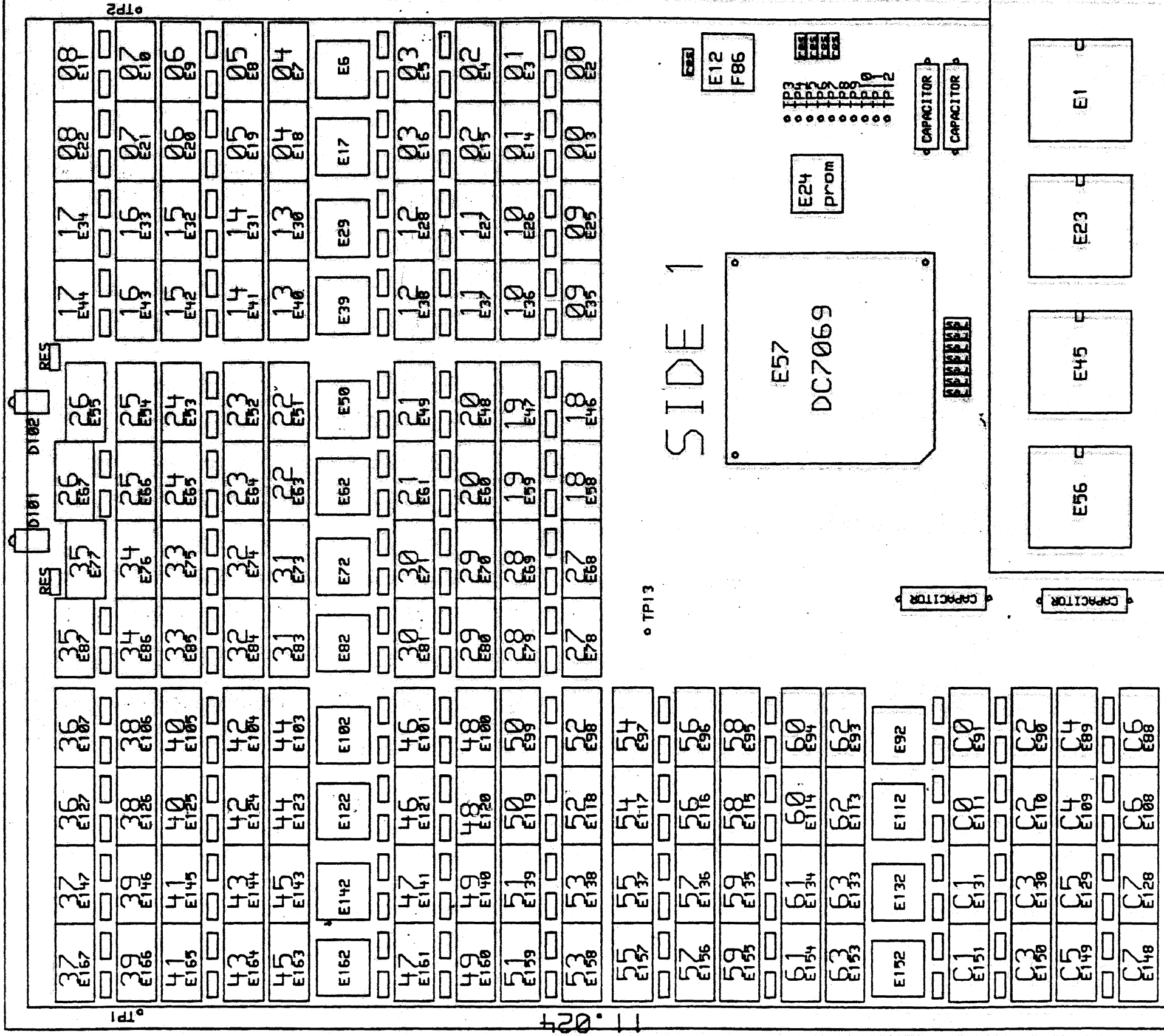
9.180

DIGITAL CONFIDENTIAL

REVISION
 OK CHANGE NO REV
 D. SOVIE OCT 1987
 R. BERKSON OCT 1987

J. RANTALA OCT 1987
 TITLE: T2014 CMOS MEMORY

SIZE CODE NUMBER REV.
 K CS T2014-0-17 A



-DRAWING-

LAST_MODIFIED=Wed Feb 10 16:47:14 1988

X32DOC.DOC.1.17
 OCTOBER 1987

GA PINOUT
TOP VIEW

LEGEND

- AR = ARB REQUEST [XMI RES REQ L]
- AS = ARB SUPPRESS [XCI TSUP L]
- CB<7:0> = CHK BITS [XCI CNF ERR L]
- CE = CNF ERR [XCI RCNF L]
- CI = CNF IN [XCI TCNF0 L]
- CO = CNF OUT [XCI RDC L0 L]
- CS <0> = CAS [TS XCI F<3:0>]
- DL = DCL0 [XCI GC12 H]
- FN<3:0> = XCI FUNC [TS XCI ID<5:0>]
- GC = XCI GC12 EN H [XCI CK12 H]
- ID<5:0> = XCI CMDR ID [XCI CK23 H]
- KA = CK12 [XCI CK34 H]
- KB = CK23 [XCI CK45 H]
- KC = CK34 [XCI CK61 H]
- KD = CK45 [TS XCI P<2:0>]
- KF = CK61 [PROM ADDRESS 0]
- PA<2:0> = XCI PARITY [XCI TBAD L]
- PC = PROM ADDRESS 0 [TS XCI D<63:0>]
- RA<10:0> = RAM ADDR [XCI XMIT ERR L]
- RD<63:0> = RAM DATA [XCI TFAULT L]
- RS<3:0> = RAS [XCI GRANT L]
- XB = XCI BAD [XCI HOLD EN H]
- XD<63:0> = XCI_DATA [XCI NULL EN H]
- XE = XCI TRANSMIT ERROR [XCI RRESET L]
- XF = XCI FAULT [PROM OUTPUT ENABLE]
- XG = XCI GRANT [VIS SEL <0:3> / VIS <0:4>]
- XH = XCI HOLD [XCI RES REQ L]
- XN = XCI NULL [XCI SUP DLO XMIT]
- XR = XCI RESET [XCI BAD GCEN RST NULL TCNF]
- TC = TRISTATE CONTROL
- TE<7:0> = SELF TEST
- WE = WRITE ENABLE

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V
18	VSS	VDD	RD	RD	RD	RD	RD	RD	VDD	VSS	VDD	RD	RD	RD	RD	VSS	VDD	
17	VDD	VSS	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	VDD	VSS	
16	CB	CB	CB	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	PC	TC	
15	CB	CB	CB	CB	CB	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	
14	RA	RA	RA	RA	FILENAME = X32DOC.DOC.1.19 DC7069										RD	RD	RD	RD
13	RA	RA	RA	RA											RD	RD	RD	RD
12	RA	RA	RA	RA											RD	RD	RD	RD
11	WE	CAS	RAS	RAS											RD	RD	RD	RD
10	VSS	CE	RAS	RAS											XD	XD	XD	VSS
9	VDD	PA	PA	CI											XD	XD	XD	VDD
8	VSS	FN	FN	PA											XD	XD	XD	VSS
7	ID	ID	FN	FN											XD	XD	XD	XD
6	ID	ID	ID	XD											XD	XD	XD	XD
5	ID	XD	XD	XD											XD	XD	XD	XD
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3	TST	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD		
2	VDD	VSS	XG	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	XD	VSS	VDD	
1	key	VDD	XH	AS	AR	DL	XE	VSS	VDD	VSS	XF	XB	GC	XR	XN	CO	VDD	VSS

DIGITAL CONFIDENTIAL

LAST_MODIFIED=Wed Feb 10 15:13:16 1989

D. SOVIE Y. BERKSON	OCT 1987 OCT 1987	J. RANTALA BOARD LOCATION:	OCT 1987 DC7069 GATE ARRAY PINOUT	TITLE:
FIRST USED ON OPTICAL MODEL: 11562A	TOP DOCUMENT NUMBER: B-DD-T2014-0-0	SIZE CODE: K CS	NUMBER: T2014-0-19	REV. A

B K CS T2014-0-19 A

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV				REFERENCE DESIGNATORS
						AA B2	AF B2	AH B2	AL B2	
1	1	K-00-5017241-0-0	50-17241-01		CIRCUIT DRILL AND ETCH	1	1	1	1	
2	2		10-15605-05		0.27 MFD 50V +/-20% X7R CE	-	183	183	183	C1-C5,C7-C11,C13-C23,C25-C29, CONT C31-C35,C37-C41,C43-C61, CONT C63-C67,C69-C74,C76-C80, CONT C82-C96,C98-C100,C122-C127, CONT C129-C136,C139,C140,C142, CONT C144-C186,C190,C195,C200,C226, CONT C230,C235,C239,C245,C249,C253, CONT C258,C263,C268,C273,C278,C283, CONT C283,C293,C298,C303,C308,C313, CONT C318,C323,C328,C333,C336-C343
3	3		10-20446-16		1000 MFD 10V +/-20% ALU	-	4	4	4	C188,C221,C231,C243
4	4		10-24051-17		220 PFD 50V +/- 5% NPO CE	-	1	1	1	C344
5	5		10-24053-12		0.22 MFD 50V +/-20% Z5U CE	-	8	8	8	C118-C121,C217-C220
6	6		10-24053-18		1.0 MFD 25V +/-20% Z5U CE	-	33	33	33	C101-C117,C201-C216
7	7		11-17373-00		LED ASSY GREEN	-	1	1	1	D102
8	8		11-17373-02		LED ASSY YELLOW	-	1	1	1	D101
9	9		13-23825-41		470.0 .25 W 5.0 % CHIP	-	2	2	2	R24,R146
10	10		13-23825-49		1.0 K .25 W 5.0 % CHIP	-	17	17	17	R1-R4,R16-R23,R25,R101,R145, CONT R147,R148
11	11		13-23827-30		20.0 .25 W 1.0 % CHIP	-	16	16	16	R5-R8,R10,R109,R121,R134, CONT R149-R152,R202,R213,R225,R237
12	12		13-23827-47		30.1 .25 W 1.0 % CHIP	-	85	85	85	R13,R102-R108,R110-R120, CONT R122-R133,R135-R144,R201, CONT R203-R212,R214-R224,R226-R236, CONT R238-R248
13	13		13-23827-68		49.9 .25 W 1.0 % CHIP	-	1	1	1	R11
14	14		19-21315-02		74F86 EXCLUSIVE OR GATE,QU	-	1	1	1	E12
15	15		19-23439-04		74ALS244 OCTAL BUFFER/LINE DR	-	16	16	16	E6,E17,E29,E39,E50,E62,E72,E82, CONT E92,E102,E112,E122,E132,E142, CONT E152,E162
16	16	SEE NOTE 11	21-26702-02		DC530 XMI INTERFACE CHIP (XLATC	-	7	7	7	E1,E23,E45,E258,E277,E287,E306

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF C		DRN: L. HAYWOOD		DATE: 03-MAR-87		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			CHK'D:	J. CUNNINGHAM	TITLE		PARTS LIST	
	INITIAL	A	[A]	AA,AF,AH,AL	[N]	DATE:	03-MAR-87	XMA 32 MBYTE			
			[B]	AP,BA,BF,BH	[N]			CMOS MEMORY			
			[C]	BL,SP	[P]	DES. ENG:	JOE RANTALA	DOCUMENT NUMBER			
			[D]		[Q]	DATE:	07-APR-87	SIZE:	CODE:	NUMBER	REV
			[E]		[R]			T2014-0-DBP		A	
			[F]		[S]	RESP. ENG.:	S. BOROFSKI	RELEASE DATE:		20-OCT-87	
			[H]		[T]	DATE:	07-APR-87	RELEASE STATUS:		RELEASED	
			[J]		[V]						
			[K]		[W]	MFG. ENG.:	R. POORE				
			[L]		[Y]	DATE:	07-APR-87				
		BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
		T2014		E-UA-T2014-0-0		K-00-T2014-0-0		MLA1038.PLS		39	

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV				REFERENCE DESIGNATORS
						AA B2	AF B2	AH B2	AL B2	
17	17	SEE NOTES 1,6	21-26656-33		*** THIS ITEM IS NOT USED ***	-	-	-	-	
18	18		21-26703-01		DC531 XMI CLOCK DECODER CHIP (XC	-	1	1	1	E56
19	19	SEE NOTES 2,7	21-27103-33		CMOS DYN RAM 120NS 1	-	-	-	-	
20	20	SEE NOTES 3,8	21-27105-33		CMOS DYN RAM 120NS 1	-	-	-	144	E2-E5, E7-E11, E13-E16, E18-E22, CONT E25-E28, E30-E38, E40-E44, CONT E46-E49, E51-E55, E58-E61, CONT E63-E71, E73-E81, E83-E91, CONT E93-E101, E103-E111, E113-E121, CONT E123-E131, E133-E141, E143-E151, CONT E153-E161, E163-E167
21	21	SEE NOTES 4,9	21-27976-33		CMOS, DYN RAM, 120NS 1	-	144	-	-	E2-E5, E7-E11, E13-E16, E18-E22, CONT E25-E28, E30-E38, E40-E44, CONT E46-E49, E51-E55, E58-E61, CONT E63-E71, E73-E81, E83-E91, CONT E93-E101, E103-E111, E113-E121, CONT E123-E131, E133-E141, E143-E151, CONT E153-E161, E163-E167
22	22	SEE NOTES 5,10	21-28061-33		CMOS, DYN RAM, 120NS, 1048576X1 FAS	-	-	144	-	E2-E5, E7-E11, E13-E16, E18-E22, CONT E25-E28, E30-E38, E40-E44, CONT E46-E49, E51-E55, E58-E61, CONT E63-E71, E73-E81, E83-E91, CONT E93-E101, E103-E111, E113-E121, CONT E123-E131, E133-E141, E143-E151, CONT E153-E161, E163-E167
23	23		21-28820-C1		DC7069B MEMORY ARRAY 129,000	-	1	1	1	E57
24	24		23-403A1-00	A1-11		-	1	1	1	E24
25	25		23-403A1-00	A1-11		-	-	-	-	

- 1 GEN: T2014-AA IS THE PRIMARY VARIATION OF THE 16MB MEMORY WITH NO RAMS INDICATED.
- 2 GEN: T2014-AP IS THE 16MB MEMORY WITH MITSUBSHI 1 MB X 1 DRAMS.
- 3 GEN: T2014-AL IS THE 16MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 4 GEN: T2014-AF IS THE 16MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 5 GEN: T2014-AH IS THE 16MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 6 GEN: T2014-BA IS THE PRIMARY VARIATION OF THE 32MB MEMORY WITH NO RAMS INDICATED.
- 7 GEN: T2014-BP IS THE 32MB MEMORY WITH MITSUBSHI 1 MB X 1 DRAMS.
- 8 GEN: T2014-BL IS THE 32MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 9 GEN: T2014-BF IS THE 32MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 10 GEN: T2014-BH IS THE 32MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 11 GEN: 21-26702-01 WITH PIN 25 CUT OFF IS AN ACCEPTABLE SUBSTITUTE FOR 21-26702-02.

! D !	! I !	! G !	! I !	! T !	! A !	! L !	! TITLE	! XMA 32 MBYTE	! SECTION A	! OF C	! !	! SIZE !	! CODE !	! DOCUMENT NUMBER	! REV !
! !	! !	! !	! !	! !	! !	! !	! CMOS MEMORY	! !	! !	! !	! !	! K !	! PL !	! T2014-C-DBP	! A !

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV				REFERENCE DESIGNATORS
						AP B2	SA B2	BF B2	BH B2	
1	1	K-DD-5017241-0-0	50-17241-01		CIRCUIT DRILL AND ETCH	1	1	1	1	
2	2		10-15805-05		0.27 MFD 50V +/-20% X7R CE	-	-	298	298	C1-C100,C122-C187,C189-C200,CONT C222-C230,C232-C242,C244-C343
			CONT			183	-	-	-	C1-C5,C7-C11,C13-C23,C25-C29,CONT C31-C35,C37-C41,C43-C61,CONT C63-C67,C69-C74,C76-C80,CONT C82-C96,C98-C100,C122-C127,CONT C129-C136,C139,C140,C142,CONT C144-C186,C190,C195,C200,C226,CONT C230,C235,C239,C245,C249,C253,CONT C258,C263,C268,C273,C278,C283,CONT C288,C293,C298,C303,C308,C313,CONT C318,C323,C328,C333,C336-C343
3	3		10-20446-16		1000 MFD 10V +/-20% ALU	4	-	4	4	C188,C221,C231,C243
4	4		10-24051-17		220 PFD 50V +/- 5% NPO CE	1	-	1	1	C344
5	5		10-24053-12		0.22 MFD 50V +/-20% Z5U CE	8	-	8	8	C118-C121,C217-C220
6	6		10-24053-18		1.0 MFD 25V +/-20% Z5U CE	33	-	33	33	C101-C117,C201-C216
7	7		11-17373-00		LED ASSY GREEN	1	-	1	1	D102
8	8		11-17373-02		LED ASSY YELLOW	1	-	1	1	D101
9	9		13-23825-41		470.0 .25 W 5.0 % CHIP	2	-	2	2	R24,R146
10	10		13-23825-49		1.0 K .25 W 5.0 % CHIP	17	-	17	17	R1-R4,R16-R23,R25,R101,R145,CONT R147,R148
11	11		13-23827-30		20.0 .25 W 1.0 % CHIP	16	-	16	16	R5-R8,R10,R109,R121,R134,CONT R149-R152,R202,R213,R225,R237
12	12		13-23827-47		30.1 .25 W 1.0 % CHIP	85	-	85	85	R13,R102-R108,R110-R120,CONT R122-R133,R135-R144,R201,CONT R203-R212,R214-R224,R226-R236,CONT R238-R248
13	13		13-23827-68		49.9 .25 W 1.0 % CHIP	1	-	1	1	R11
14	14		19-21315-02		74F85 EXCLUSIVE OR GATE,QU	1	-	1	1	E12
15	15		19-23439-04		74ALS244 OCTAL BUFFER/LINE DR	16	-	16	16	E6,E17,E29,E39,E50,E62,E72,E82,CONT E92,E102,E112,E122,E132,E142,

REVISION HISTORY		KPL MODULE FORMAT		SECTION 8 OF CDRN: L. HAYWOOD		DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D:	J. CUNNINGHAM	TITLE	PARTS LIST		
	INITIAL	A	[A] AA,AF,AH,AL [M] [B] AP,BA,BF,BH [N] [C] BL,BP [P] [D] [Q] [E] [R] [F] [S] [H] [T] [J] [V] [K] [W] [L] [Y]	DATE: 03-MAR-87		XMA 32 MBYTE CMOS MEMORY			
				DES. ENG: JOE RANTALA		DOCUMENT NUMBER			
				DATE: 07-APR-87		SIZE	CODE	NUMBER	REV
				RESP. ENG.: S. BOROFSKI		K	PL	T2014-0-DBP	A
				DATE: 07-APR-87		RELEASE DATE: 20-OCT-87			
				MFG. ENG: R. POORE		RELEASE STATUS: RELEASED			
				DATE: 07-APR-87					
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
T2014		E-UA-T2014-0-0		K-DD-T2014-0-0		MLA1038.PLS		39	

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LINE ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VAR/REV				REFERENCE DESIGNATORS
					AP	BA	BF	BH	
					02	02	02	02	
16	16	21-26702-02		DC530 XMI INTERFACE CHIP (XLATC	7	-	7	7	CONT E152,E162
17	17	21-26656-33		*** THIS ITEM IS NOT USED ***	-	-	-	-	E1,E23,E45,E258,E277,E287,E306
18	18	21-26703-01		DC531 XMI CLOCK DECODER CHIP (XC	1	-	1	1	E56
19	19	21-27103-33		CMOS DYN RAM 120NS 1	144	-	-	-	E2-E5,E7-E11,E13-E16,E18-E22, CONT E25-E28,E30-E38,E40-E44, CONT E46-E49,E51-E55,E58-E61, CONT E63-E71,E73-E81,E83-E91, CONT E93-E101,E103-E111,E113-E121, CONT E123-E131,E133-E141,E143-E151, CONT E153-E161,E163-E167
20	20	21-27105-33		CMOS DYN RAM 120NS 1	-	-	-	-	
21	21	21-27976-33		CMOS DYN RAM 120NS 1	-	-	288	-	E2-E5,E7-E11,E13-E16,E18-E22, CONT E25-E28,E30-E38,E40-E44, CONT E46-E49,E51-E55,E58-E61, CONT E63-E71,E73-E81,E83-E91, CONT E93-E101,E103-E111,E113-E121, CONT E123-E131,E133-E141,E143-E151, CONT E153-E161,E163-E257,E259-E276, CONT E278-E286,E288-E305,E307-E315
22	22	21-28061-33		CMOS DUN RAM 120NS 1043576X1 FAS	-	-	-	288	E2-E5,E7-E11,E13-E16,E18-E22, CONT E25-E28,E30-E38,E40-E44, CONT E46-E49,E51-E55,E58-E61, CONT E63-E71,E73-E81,E83-E91, CONT E93-E101,E103-E111,E113-E121, CONT E123-E131,E133-E141,E143-E151, CONT E153-E161,E163-E257,E259-E276, CONT E278-E286,E288-E305,E307-E315
23	23	21-28820-01		DC7069B MEMORY ARRAY 129,000	1	-	1	1	E57
24	24	23-402A1-00	A1-11		1	-	-	-	E24
25	25	23-403A1-00	A1-11		-	-	1	1	E24

- 1 GEN: T2014-AA IS THE PRIMARY VARIATION OF THE 16MB MEMORY WITH NO RAMS INDICATED.
- 2 GEN: T2014-AP IS THE 16MB MEMORY WITH MITSUBISHI 1 MB X 1 DRAMS.
- 3 GEN: T2014-AL IS THE 16MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 4 GEN: T2014-AF IS THE 16MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 5 GEN: T2014-AH IS THE 16MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 6 GEN: T2014-DA IS THE PRIMARY VARIATION OF THE 32MB MEMORY WITH NO RAMS INDICATED.
- 7 GEN: T2014-3P IS THE 32MB MEMORY WITH MITSUBISHI 1 MB X 1 DRAMS.
- 8 GEN: T2014-BL IS THE 32MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 9 GEN: T2014-BF IS THE 32MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 10 GEN: T2014-BH IS THE 32MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 11 GEN: 21-26702-01 WITH PIN 25 CUT OFF IS AN ACCEPTABLE SUBSTITUTE FOR 21-26702-02.

! D ! I ! G ! I ! T ! A ! L !	! TITLE !	! SECTION B OF C !	! SIZE ! CODE !	! DOCUMENT NUMBER !	! REV !
! ! ! ! ! ! ! !	XMA 32 MBYTE CMOS MEMORY	! ! ! ! ! ! ! !	! ! ! ! ! ! ! !	T2014-0-DBP	A

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV		REFERENCE DESIGNATORS
						BL	BP	
1	1	K-DD-5017241-0-0	50-17241-01		CIRCUIT DRILL AND ETCH	1	1	
2	2		10-15605-05		0.27 MFD 50V +/-20% X7R CE	298	298	C1-C100,C122-C187,C189-C200, CONT C222-C230,C232-C242,C244-C343
3	3		10-20445-16		1000 MFD 10V +/-20% ALU	4	4	C188,C221,C231,C243
4	4		10-24051-17		220 PFD 50V +/- 5% NPO CE	1	1	C344
5	5		10-24053-12		0.22 MFD 50V +/-20% Z5U CE	8	8	C118-C121,C217-C220
6	6		10-24053-18		1.0 MFD 25V +/-20% Z5U CE	33	33	C101-C117,C201-C216
7	7		11-17373-00		LED ASSY GREEN	1	1	D102
8	8		11-17373-02		LED ASSY YELLOW	1	1	D101
9	9		13-23825-41		470.0 .25 W 5.0 % CHIP	2	2	R24,R146
10	10		13-23825-49		1.0 K .25 W 5.0 % CHIP	17	17	R1-R4,R16-R23,R25,R101,R145, CONT R147,R148
11	11		13-23827-30		20.0 .25 W 1.0 % CHIP	16	16	R5-R8,R10,R109,R121,R134, CONT R149-R152,R202,R213,R225,R237
12	12		13-23827-47		30.1 .25 W 1.0 % CHIP	85	85	R13,R102-R108,R110-R120, CONT R122-R133,R135-R144,R201, CONT R203-R212,R214-R224,R226-R236, CONT R238-R248
13	13		13-23827-68		49.9 .25 W 1.0 % CHIP	1	1	R11
14	14		19-21315-02		74F36 EXCLUSIVE OR GATE,QU	1	1	E12
15	15		19-23439-04		74ALS244 OCTAL BUFFER/LINE DR	16	16	E6,E17,E29,E39,E50,E62,E72,E82, CONT E92,E102,E112,E122,E132,E142, CONT E152,E162
16	16	SEE NOTE 11	21-26702-02		DC530 XMI INTERFACE CHIP (XLATC	7	7	E1,E23,E45,E258,E277,E287,E306
17	17	SEE NOTES 1,6	21-26656-33		*** THIS ITEM IS NOT USED ***	-	-	
18	18		21-26703-01		DC531 XMI CLOCK DECODER CHIP (XC	1	1	E56
19	19	SEE NOTES 2,7	21-27103-33		CMOS DYN RAM 120NS 1	-	288	E2-E5,E7-E11,E13-E16,E18-E22, CONT E25-E28,E30-E38,E40-E44, CONT E46-E49,E51-E55,E58-E61, CONT E63-E71,E73-E81,E83-E91, CONT E93-E101,E103-E111,E113-E121, CONT E123-E131,E133-E141,E143-E151,

REVISION HISTORY			KPL MODULE FORMAT SECTION C OF CDRN: L. HAYWOOD			DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE	CHK'D	TITLE
	INITIAL	A	[A] AA,AF,AH,AL	[M]		03-MAR-87	J. CUNNINGHAM	PARTS LIST
			[B] AP,BA,BF,BH	[N]		03-MAR-87		XMA 32 MBYTE
			[C] BL,BP	[P]		07-APR-87	JOE RANTALA	CMOS MEMORY
			[D]	[Q]				DOCUMENT NUMBER
			[E]	[R]				SIZE CODE NUMBER REV
			[F]	[S]			S. BOROFSKI	
			[H]	[T]		07-APR-87		K PL T2014-D-DBP A
			[J]	[V]				
			[K]	[W]			R. POORE	RELEASE DATE: 20-OCT-87
			[L]	[Y]		07-APR-87		RELEASE STATUS: RELEASED
			BASIC PART NUMBER: T2014			ASSEMBLY NUMBER: E-UA-T2014-0-0		
			TOP DOCUMENT NUMBER: K-DD-T2014-0-0			FILE NAME: MLA1038.PLS		
			EDIT #			39		

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LINE ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VAR/REV		REFERENCE DESIGNATORS
					B1	B2	
20	20	SEE NOTES 3,3		CMOS DYN RAM 120NS 1	288	-	CONT E153-E161,E163-E257,E259-E276, CONT E278-E286,E288-E305,E307-E315 E2-E5,E7-E11,E13-E16,E18-E22, CONT E25-E28,E30-E38,E40-E44, CONT E46-E49,E51-E55,E58-E61, CONT E63-E71,E73-E81,E83-E91, CONT E93-E101,E103-E111,E113-E121, CONT E123-E131,E133-E141,E143-E151, CONT E153-E161,E163-E257,E259-E276, CONT E278-E286,E288-E305,E307-E315
21	-21	SEE NOTES 4,9		CMOS,DYN RAM,120NS 1	-	-	
22	22	SEE NOTES 5,10		CMOS,DUN RAM,120NS,1048576X1 FAS	-	-	
23	23			DC70693 MEMORY ARRAY 129,000	1	1	E57
24	24			A1-11	-	-	
25	25			A1-11	1	1	E24

- 1 GEN: T2014-AA IS THE PRIMARY VARIATION OF THE 16MB MEMORY WITH NO RAMS INDICATED.
- 2 GEN: T2014-AP IS THE 16MB MEMORY WITH MITSUBISHI 1 MB X 1 DRAMS.
- 3 GEN: T2014-AL IS THE 16MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 4 GEN: T2014-AF IS THE 16MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 5 GEN: T2014-AH IS THE 16MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 6 GEN: T2014-BA IS THE PRIMARY VARIATION OF THE 32MB MEMORY WITH NO RAMS INDICATED.
- 7 GEN: T2014-BP IS THE 32MB MEMORY WITH MITSUBISHI 1 MB X 1 DRAMS.
- 8 GEN: T2014-BL IS THE 32MB MEMORY WITH TOSHIBA 1 MB X 1 DRAMS.
- 9 GEN: T2014-BF IS THE 32MB MEMORY WITH HITACHI 1 MB X 1 DRAMS.
- 10 GEN: T2014-BH IS THE 32MB MEMORY WITH NEC 1 MB X 1 DRAMS.
- 11 GEN: 21-26702-01 WITH PIN 25 CUT OFF IS AN ACCEPTABLE SUBSTITUTE FOR 21-26702-02.

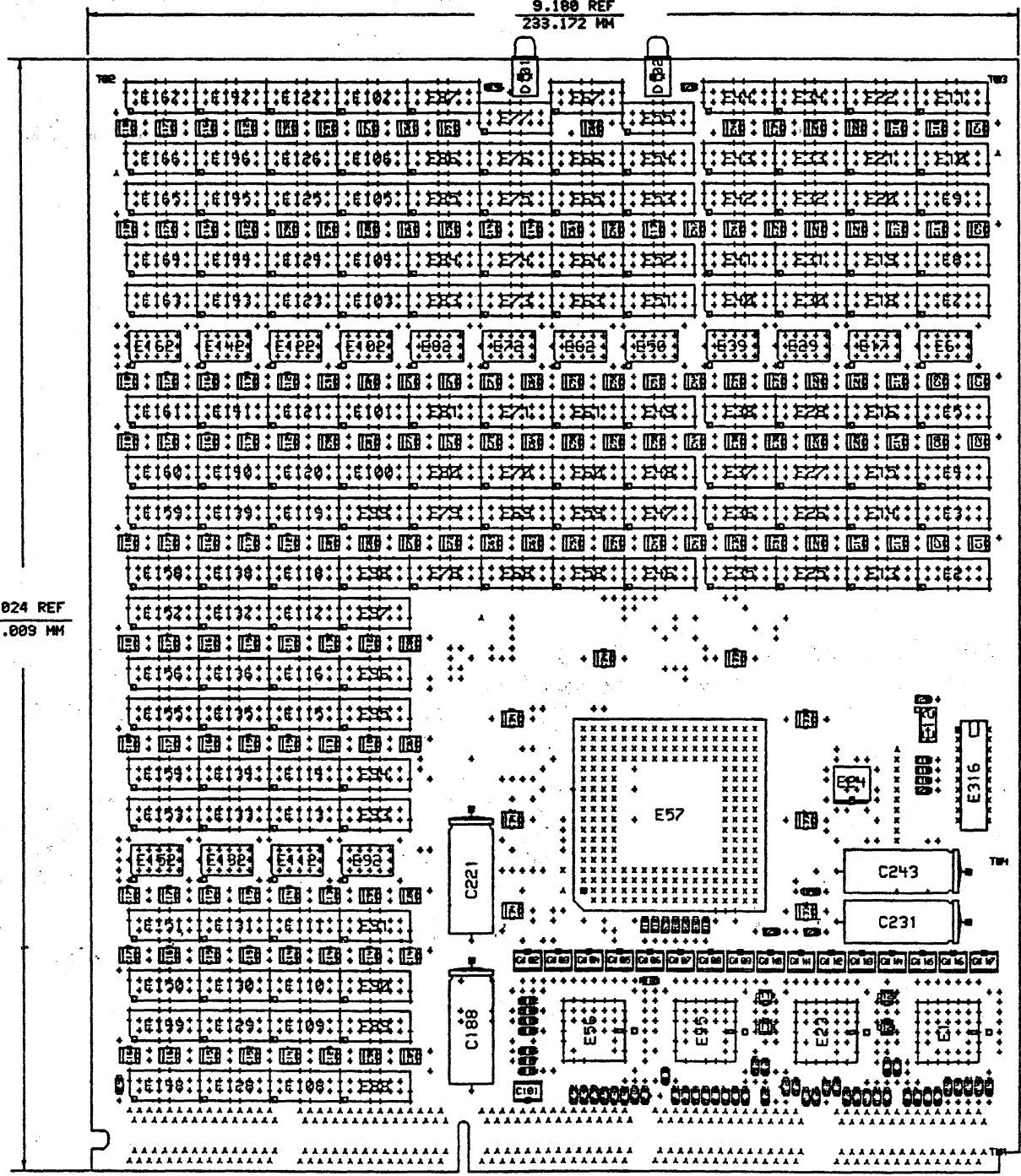
! D ! I ! G ! I ! T ! A ! L !	! TITLE	! XMA 32 BYTE	! SECTION C OF C	! ! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! ! ! ! ! ! ! !	! CMOS MEMORY	! ! ! ! ! ! ! !	! ! ! ! ! ! ! !	! ! K ! PL !	! T2014-0-DBP	! A !

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VIEWED FROM SIDE 1

9.188 REF
233.172 MM

11.024 REF
280.009 MM



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CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV	CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES

1. E316 IS A SPARE.
2. SEE SHEET 6 + 6 FOR 16MB VARIATION
3. K16 IS NOT INSTALLED

REV.01

SIGNATURES	DATE
DRYDEN J. LEPCOSKI	
CHECKED L. HAYWOOD	
MECH ENG JOE BOWALA	
PROD ENG S. BODORSKI	
PROD P. POORE	

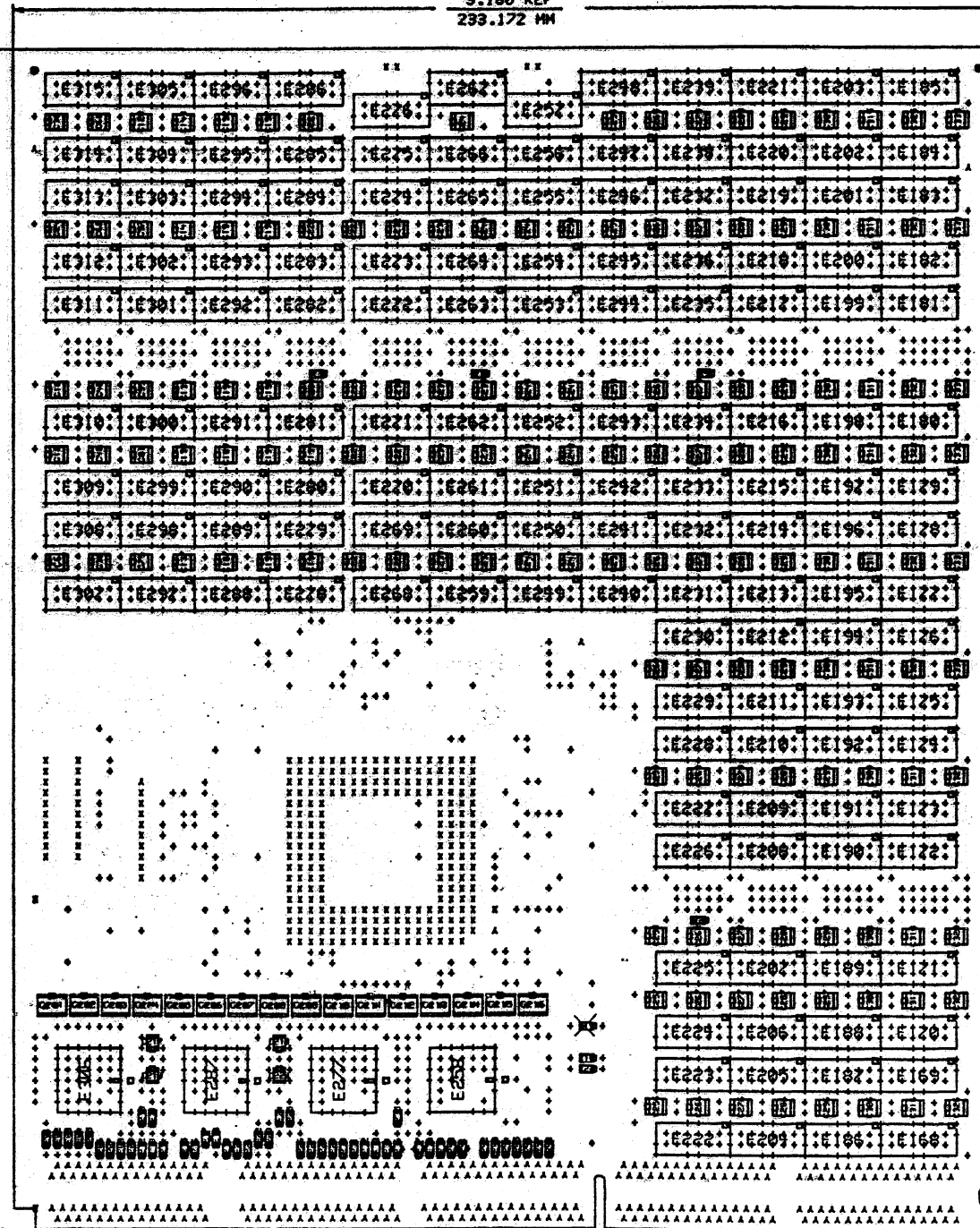
TITLE: 4M4 32 MBYTE
CMOS MEMORY

SIZE CODE: 12014-B-0
NUMBER: 1
REV: A

VIEWED FROM SIDE 2

9.188 REF
293.172 MH

11.024 REF
280.009 MH



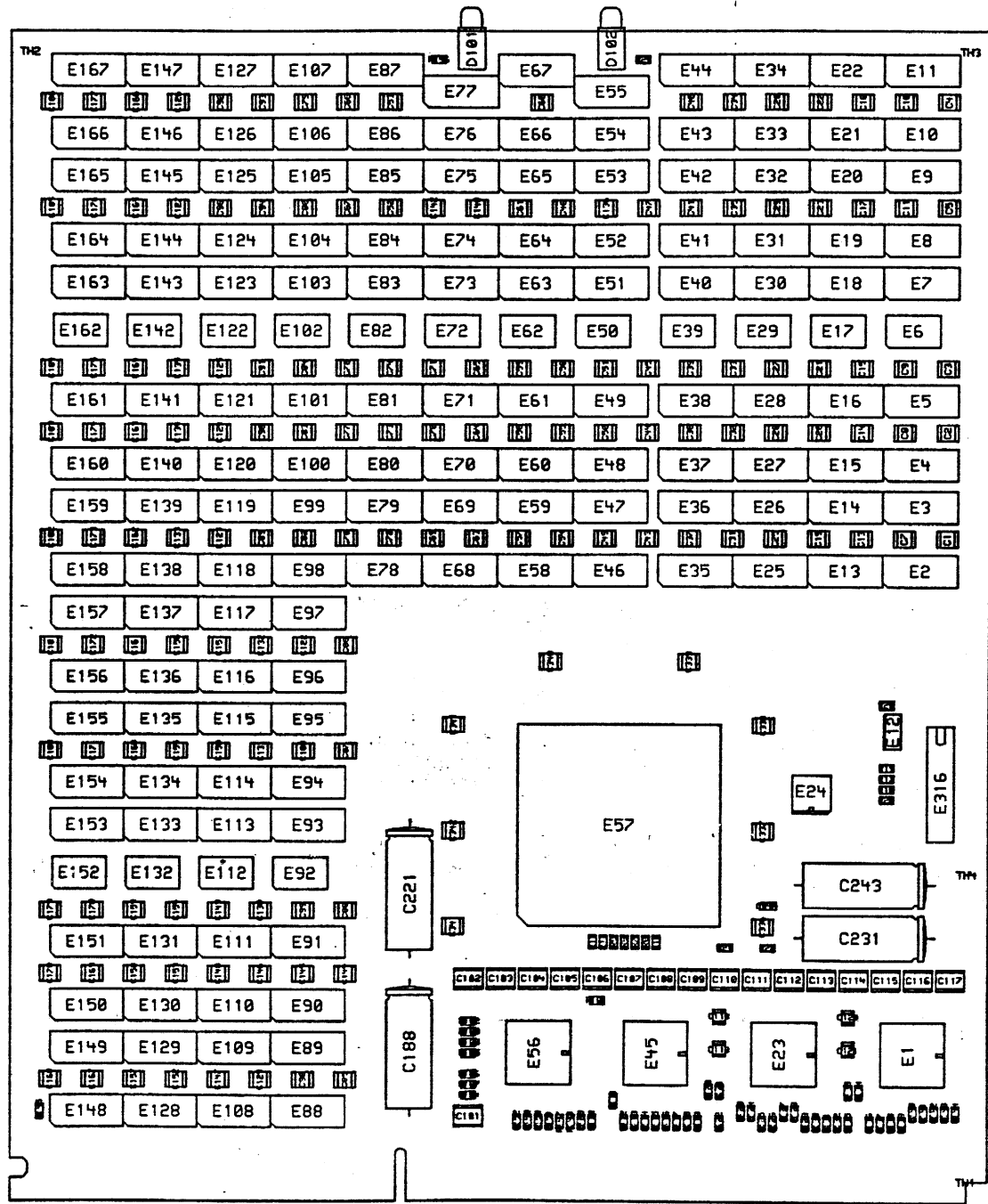
DIGITAL
CONFIDENTIAL

TITLE		DOCUMENT NUMBER	
NUMBER	REV	NUMBER	REV
104R 32 MBYTE CHDS MEMORY		E UR T2014-0-0	
		SHEET 7 OF 12	
		NO# 276791	

8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---

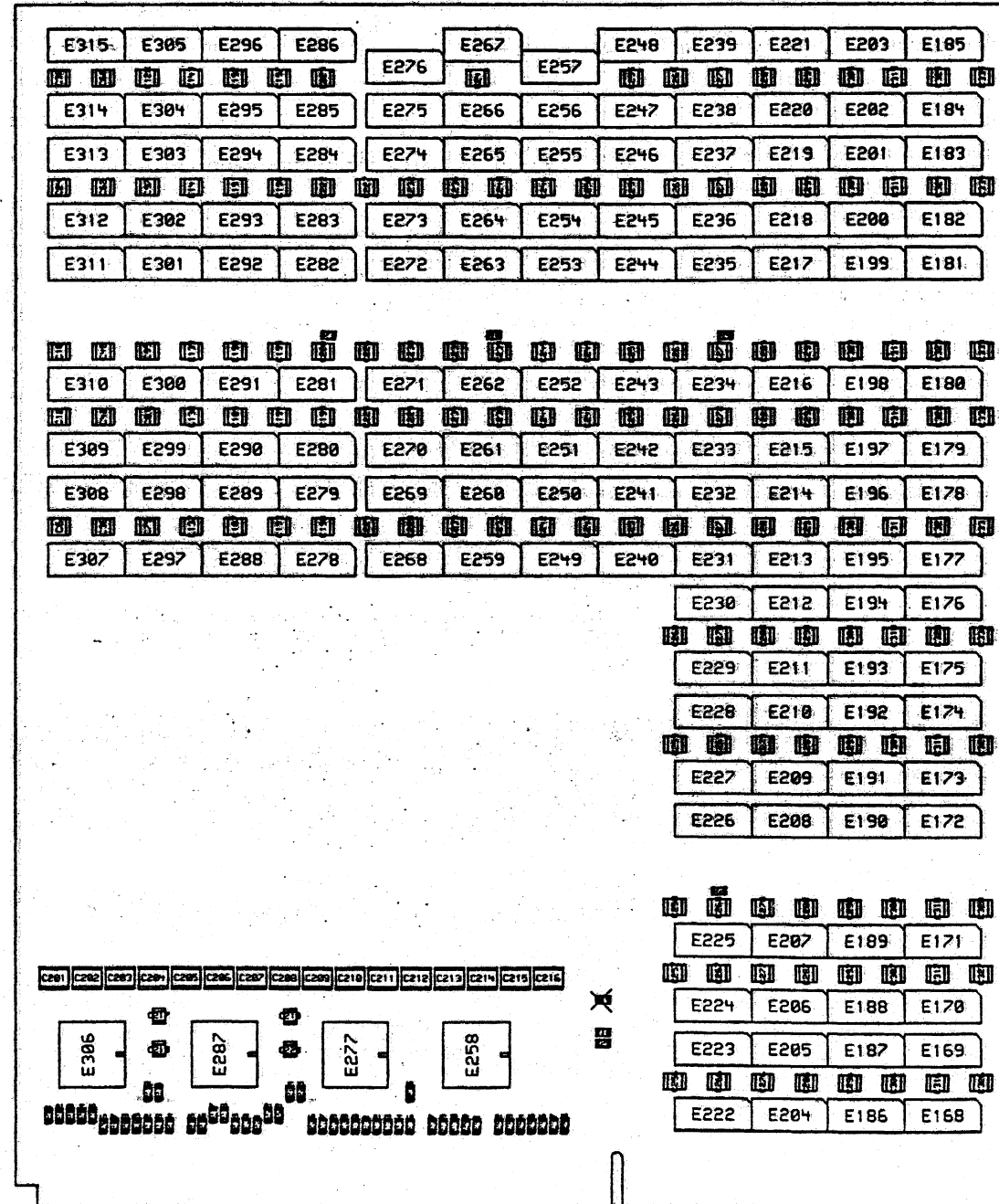
1. All dimensions are in inches unless otherwise specified.
 2. All components are to be placed on the board as shown.
 3. All components are to be placed on the board as shown.
 4. All components are to be placed on the board as shown.
 5. All components are to be placed on the board as shown.
 6. All components are to be placed on the board as shown.
 7. All components are to be placed on the board as shown.
 8. All components are to be placed on the board as shown.
 9. All components are to be placed on the board as shown.
 10. All components are to be placed on the board as shown.

VIEWED FROM SIDE 1



DIGITAL
CONFIDENTIAL

VIED FROM SIDE 2



DIGITAL
CONFIDENTIAL

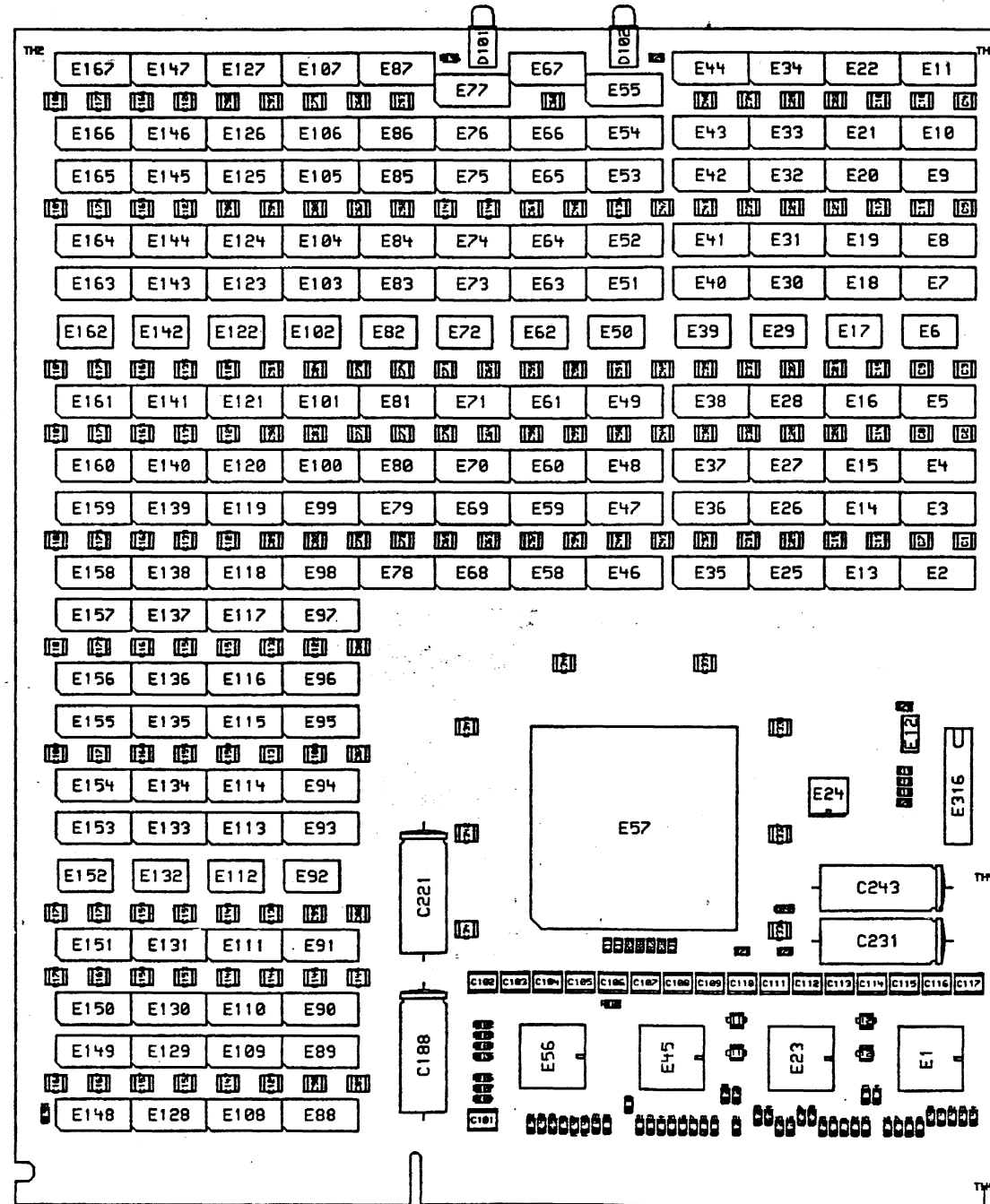
TITLE
XPR 32 MBYTE
CMOS MEMORY

DOCUMENT NUMBER
E UR T2014-0-0
SCALE 3/1 SHEET 4 OF 12
NO# 276791

DO NOT WRITE IN THESE SPACES

USE FOR 16MB VARIATIONS ONLY

VIED FROM SIDE 1



DIGITAL
CONFIDENTIAL

J
H
F
E
D
C
B
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J
H
F
E
D
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A

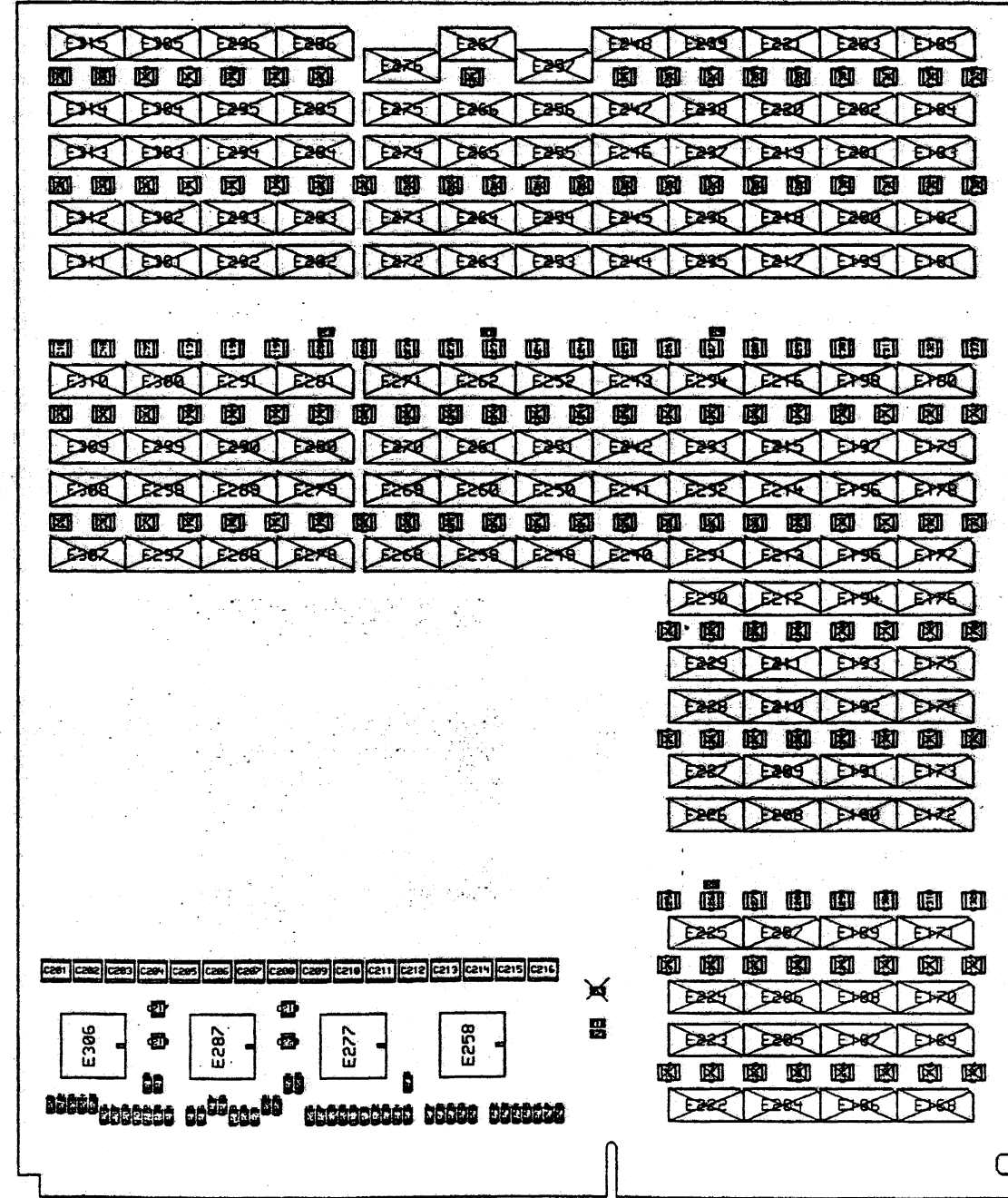
8 7 6 5 4 3 2 1

USE FOR 16MB VARIATIONS ONLY

NOTES

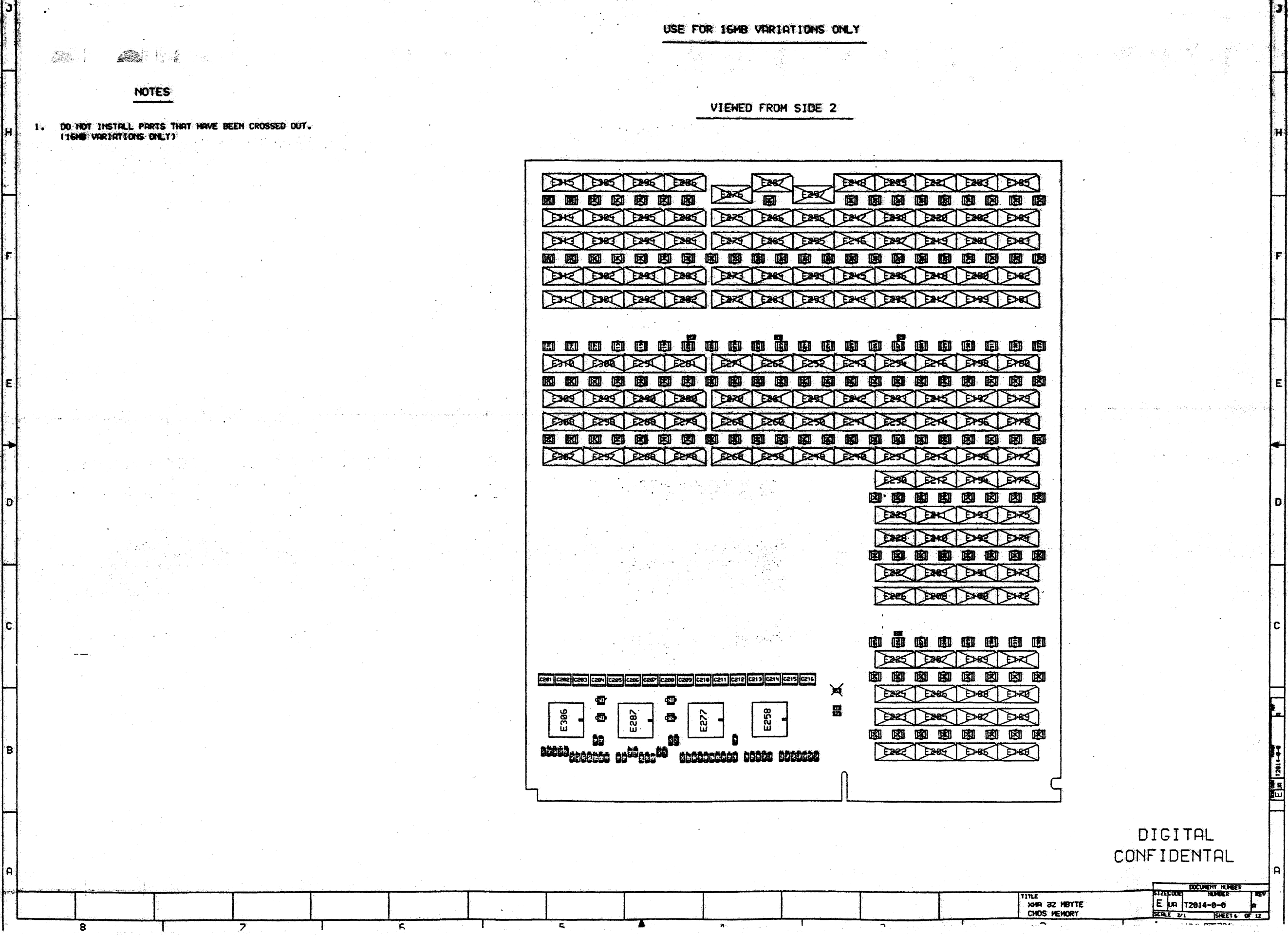
- 1. DO NOT INSTALL PARTS THAT HAVE BEEN CROSSED OUT. (16MB VARIATIONS ONLY)

VIEWED FROM SIDE 2



DIGITAL
CONFIDENTIAL

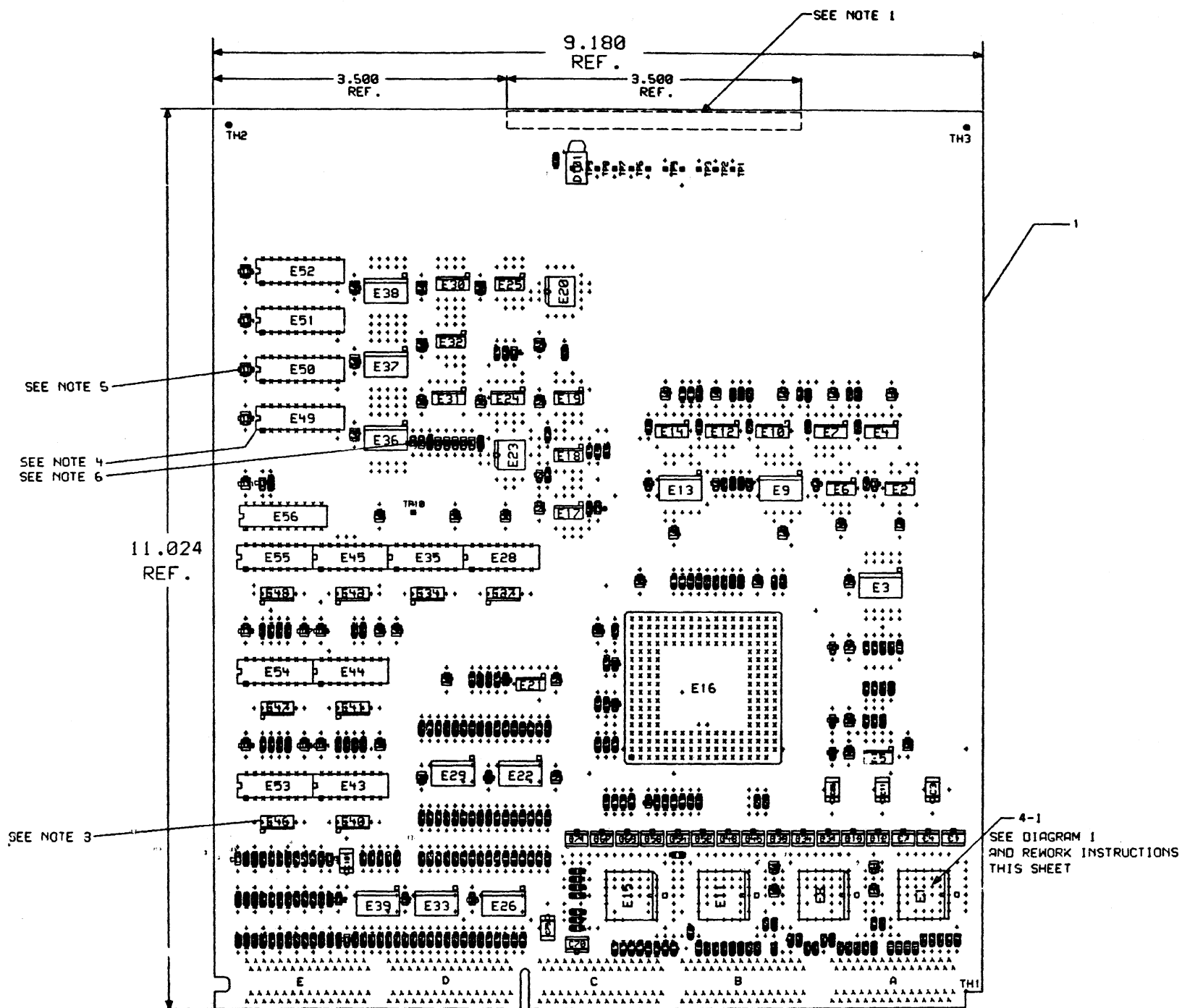
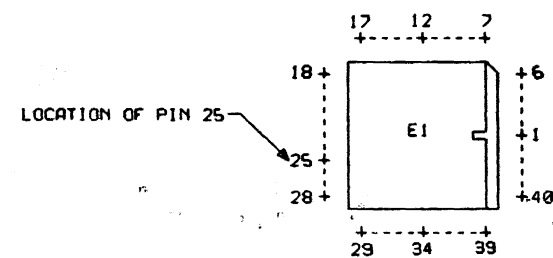
TITLE	DOCUMENT NUMBER
16MB 32 BYTE CHOS MEMORY	E UR T2014-0-0
SCALE 2/1	SHEET 6 OF 12



VIEWED FROM SIDE 1
COMPONENT SIDE

REWORK INSTRUCTIONS PCA004		
4-1. CUT PIN 25 ON THE FOLLOWING COMPONENTS:		
	X	Y
E1.25	10805	3000
E8.25	9605	3000
E11.25	8405	3000
E57.25	11595	3000
E58.25	10395	3000
E59.25	9195	3000
E60.25	8095	3000

DIAGRAM 1



SEE NOTE 5

SEE NOTE 4
SEE NOTE 6

SEE NOTE 3

4-1
SEE DIAGRAM 1
AND REWORK INSTRUCTIONS
THIS SHEET

Last edited by CHKVUE:::PVIEW 21-OCT-1987 Prev. file: E_UA_T2012_0_0_A_1

CHK	DESIGN BY	ENGINEER	CHANGE NO	DATE REV

NOTES 1. ADD FOR CODE AS REQUIRED.
2. SOURCE BLOCK INDICATES COMPONENT PIN 1.
3. E27, E31, E34, E40-E42, E46-E48 ARE RESERVED IC LOCATIONS.
4. E3, E20, E25, E30, E32, E36-E38, E49-E52 ARE SPARE IC LOCATIONS.
5. C24, C28, C31, C32-C38, C112-C118 ARE SPARE CAPACITOR LOCATIONS.

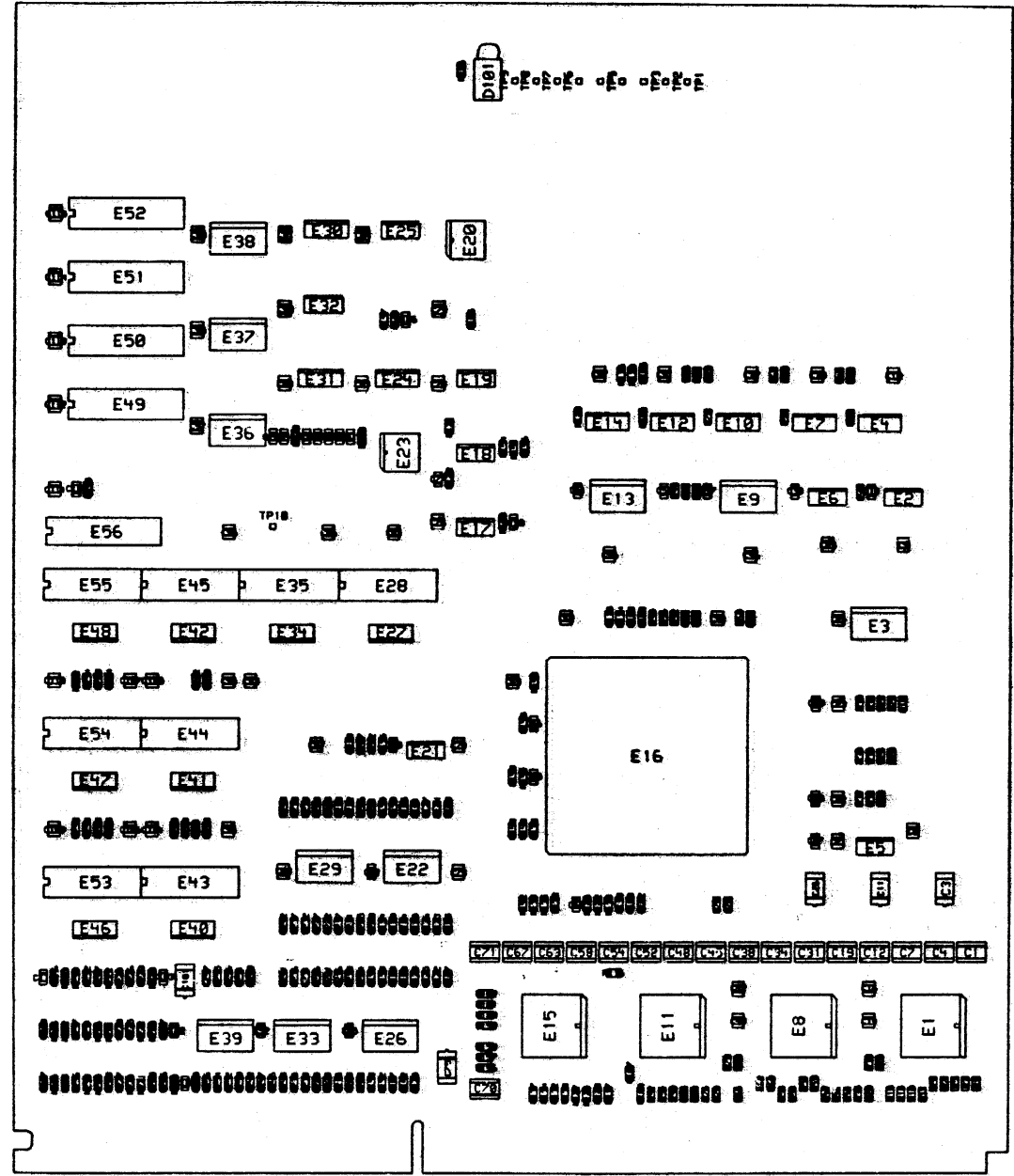
6. R150, R106, R214, R219, R224, R229, R234, R244, R246 ARE RESERVED RESISTOR LOCATIONS.
7. UNLESS OTHERWISE SPECIFIED USE D-SIP-T2998-B-B CONTROL Dwg SET FOR MECH'L, ELECTRICAL & ASST REPT'S

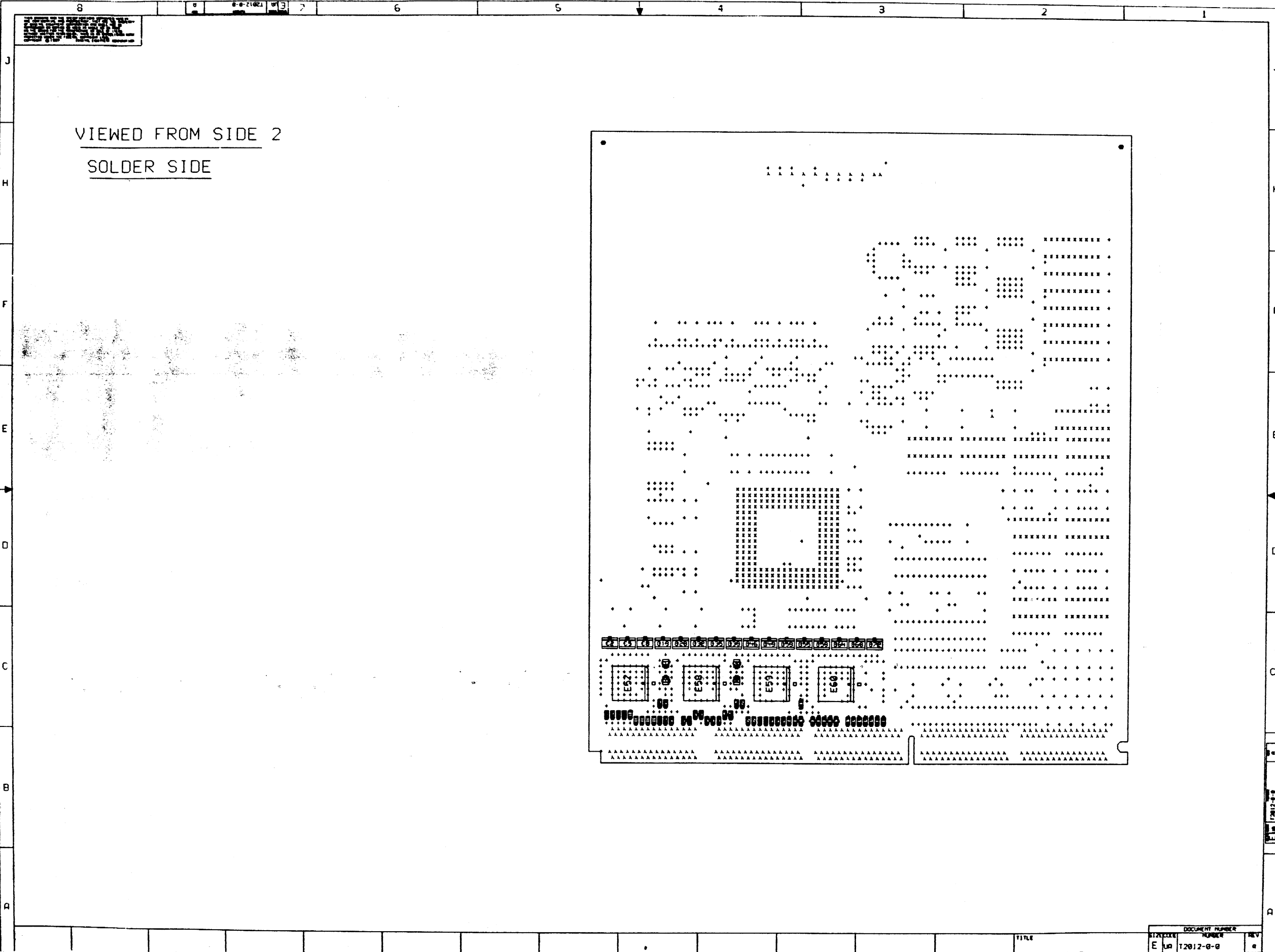
SIGNATURES	DATE
DESIGN: JOHN ALLEN	10/11/87
CHECKED: F. GARDNER	10/11/87
RECH ENG: VICTORIA THOMAS	10/11/87
PROJ ENG: SPENCER HOLMES	10/11/87
PROD CONTROL: VICKI	10/11/87

TITLE
XB1A MODULE
SCALE 2:1
SHEET 1 OF 4
E_UA_T2012_0_0

12812-0-0

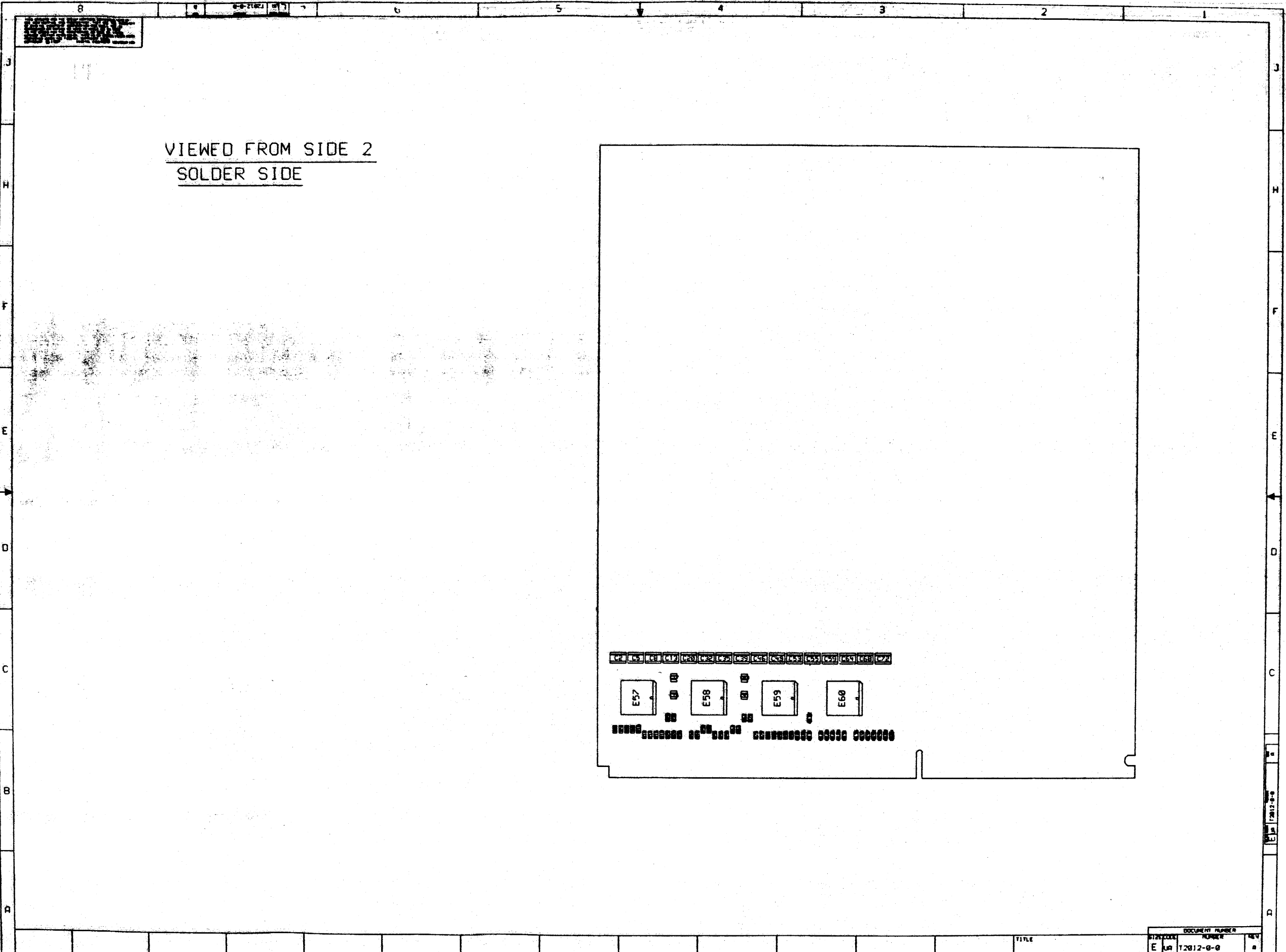
VIEWED FROM SIDE 1
COMPONENT SIDE





VIEWED FROM SIDE 2
SOLDER SIDE

SYMBOL	DOCUMENT NUMBER	REV
E	12012-G-0	a



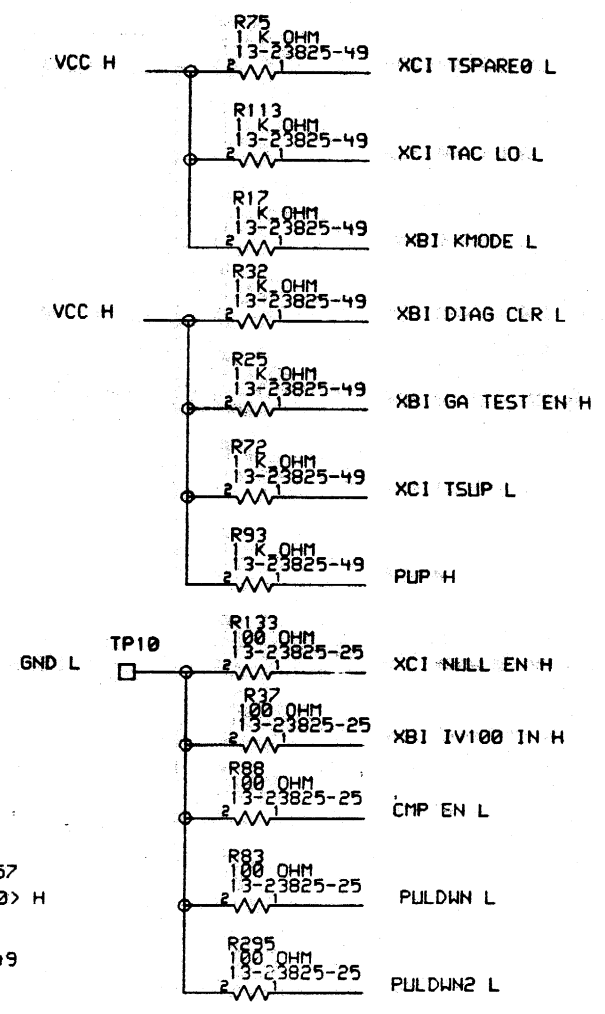
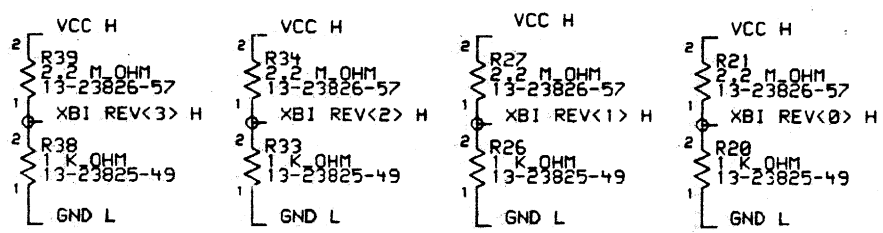
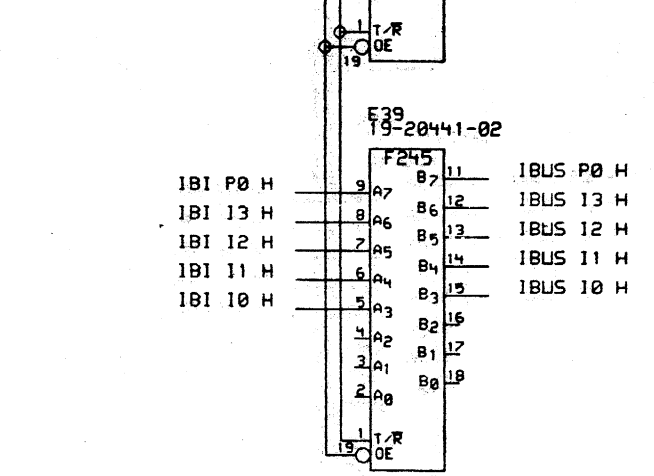
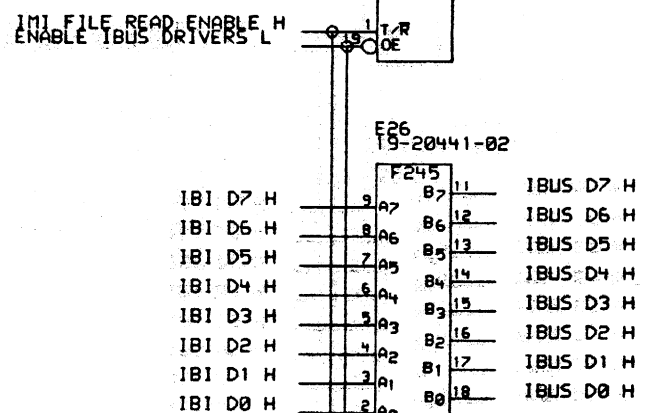
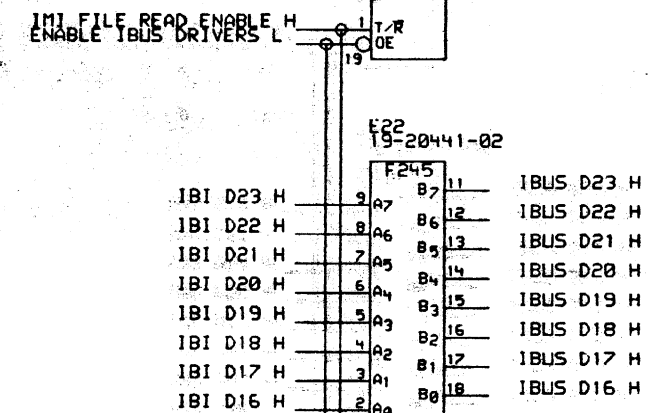
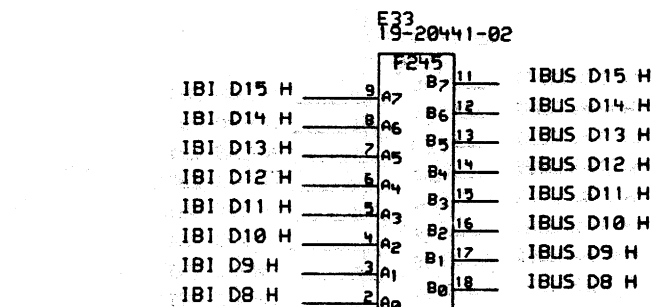
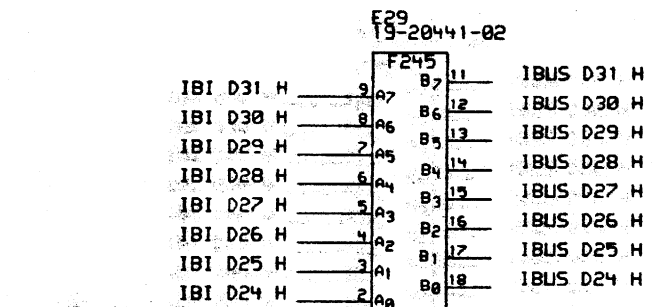
VIEWED FROM SIDE 2
SOLDER SIDE

C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22

E57 E58 E59 E60

Resistor/Capacitor values and footprints

IBUS BIDIRECTIONAL TRANSCEIVERS

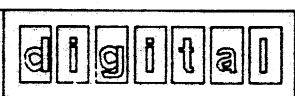


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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

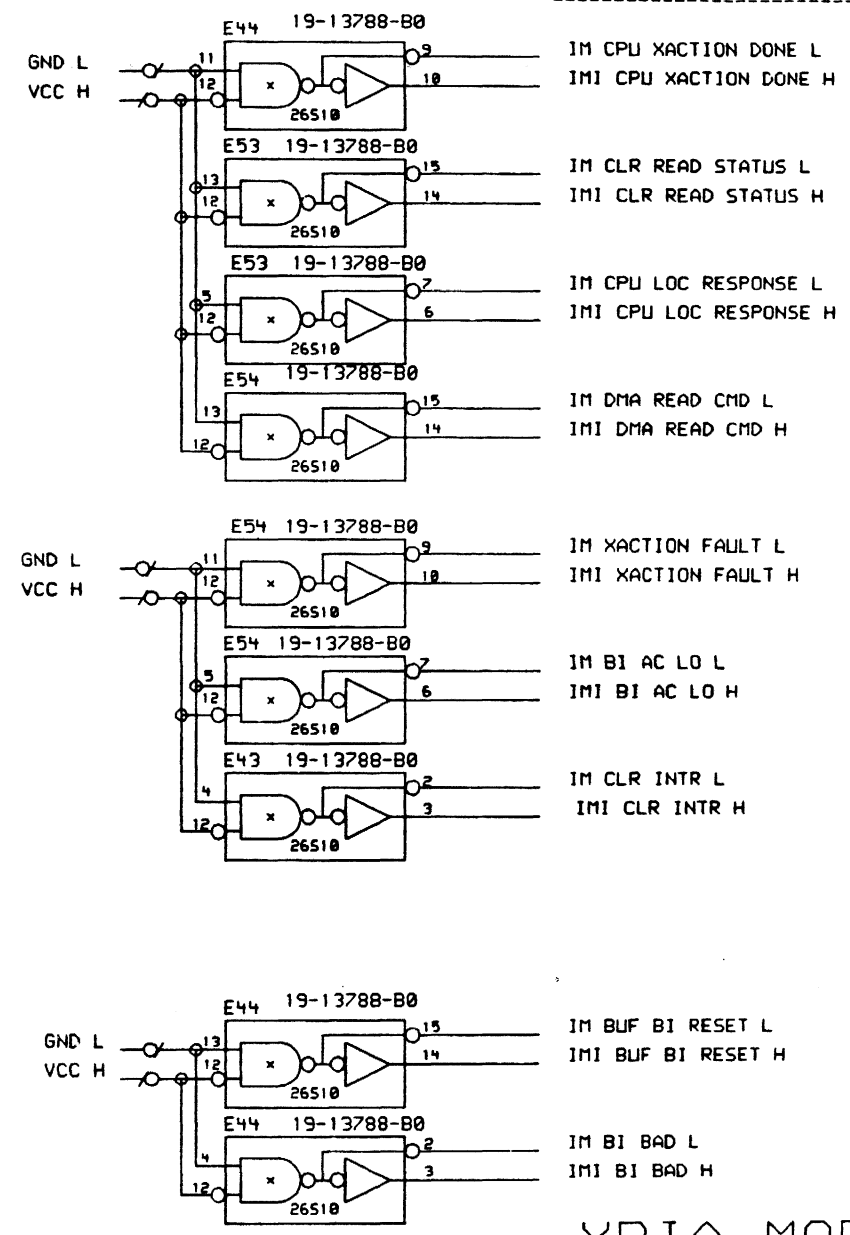
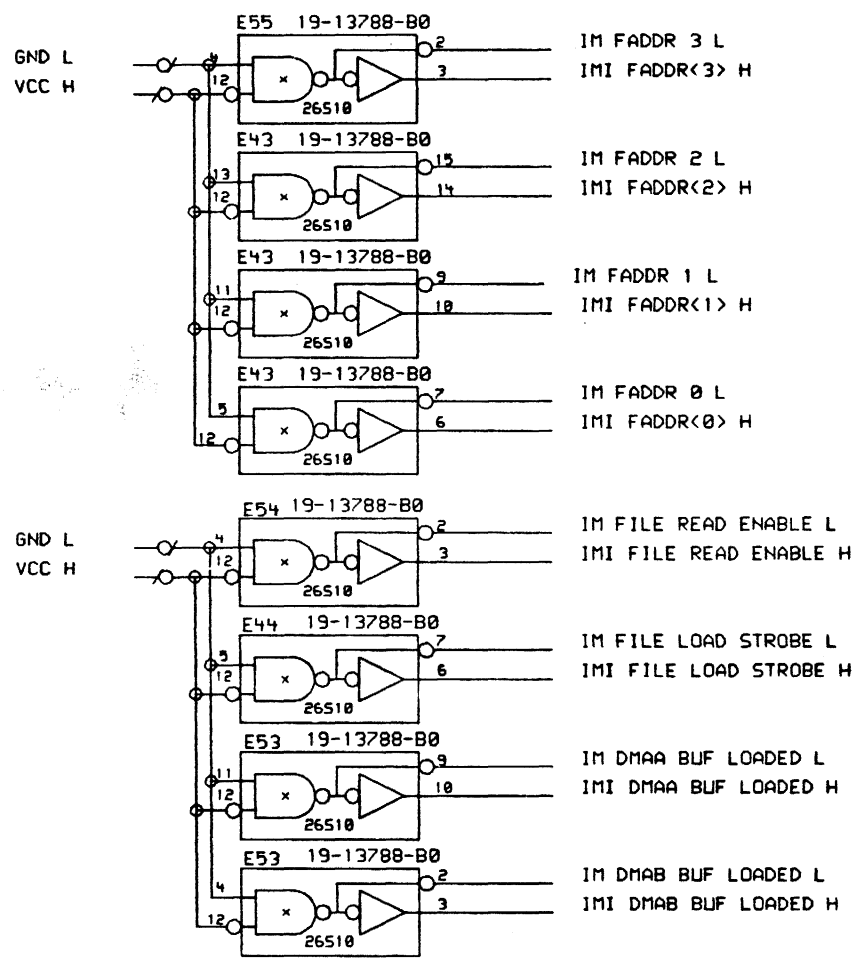
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DRN:	V. TRIOLO	DATE	2-10-87	ENG:	V. TRIOLO	DATE	2-10-87	TITLE:	XBIA.LOGIC.1.2		
CHK'D:	M. Goody	DATE	2-10-87	SHEET	1	OF	1	SIZE	CODE	NUMBER	REV
				NEXT HIGHER ASSEMBLY:	K-DD-T2012-0-0			K	CS	T2012-0-A02	A

SIZE	CODE	NUMBER	REV
K	CS	T2012-0-A02	A

IBUS DRIVERS

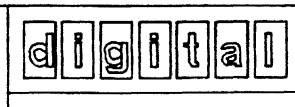


XBIA MODULE

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REVISION HISTORY		
REV	ECO NUMBER	DATE

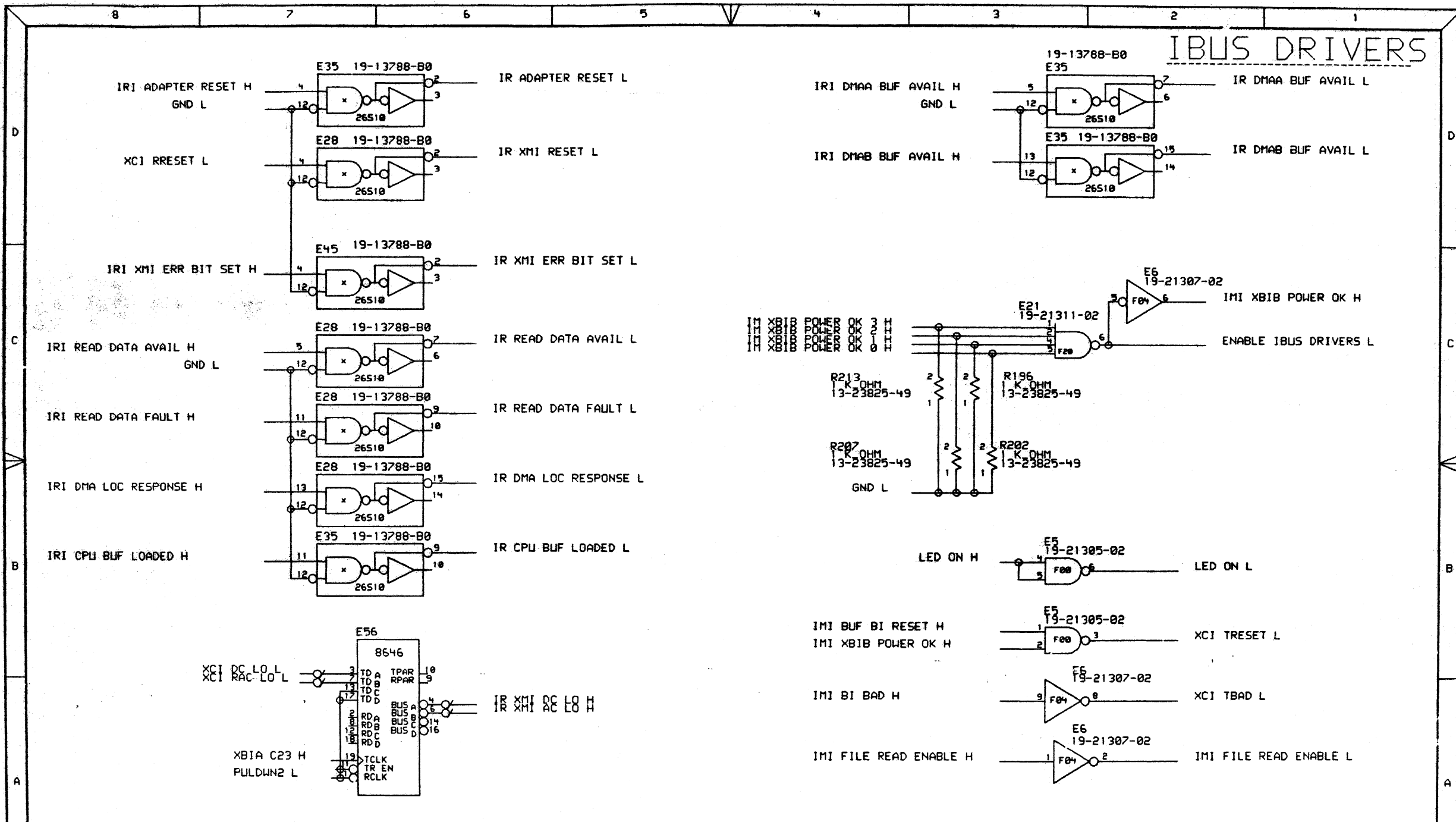
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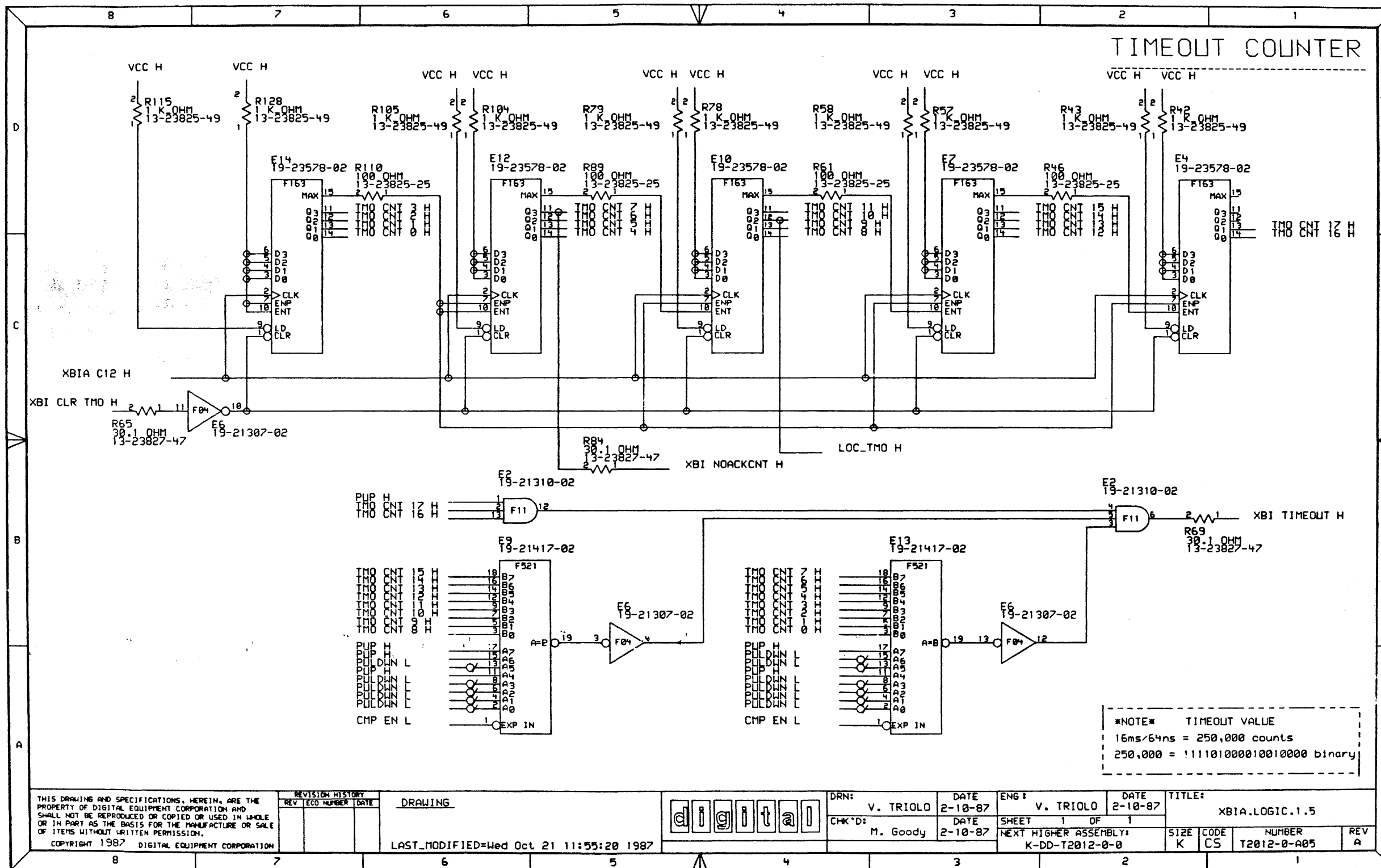
DRN: V. TRIOLO DATE 2-10-87
 CHK'D: M. Goody DATE 2-10-87

ENG: V. TRIOLO DATE 2-10-87
 SHEET 1 OF 1
 NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0
 TITLE: XBIA.LOGIC.1.3
 SIZE K CODE CS NUMBER T2012-0-A03 REV A

IBUS DRIVERS



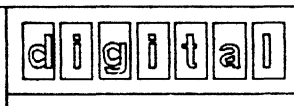
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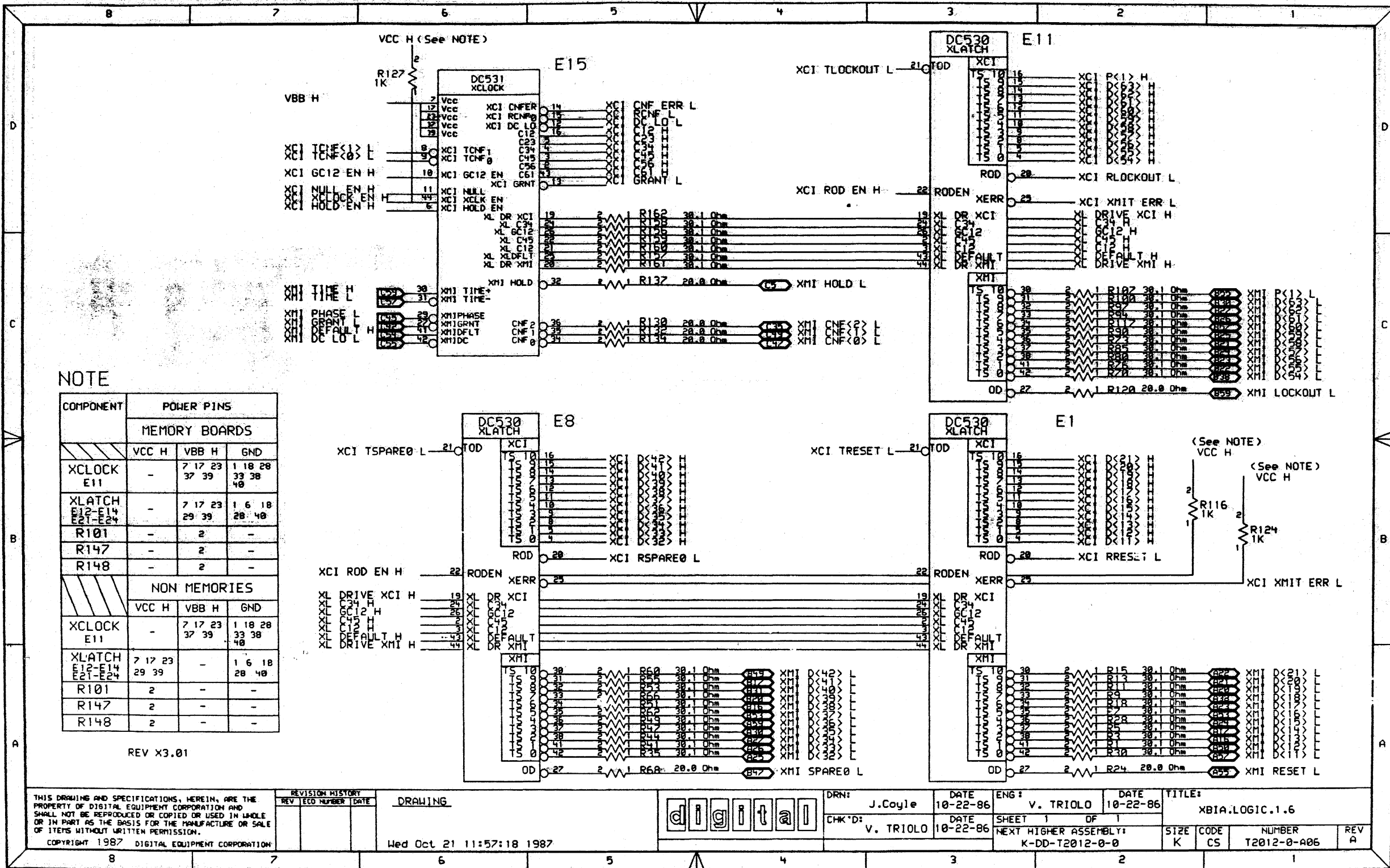
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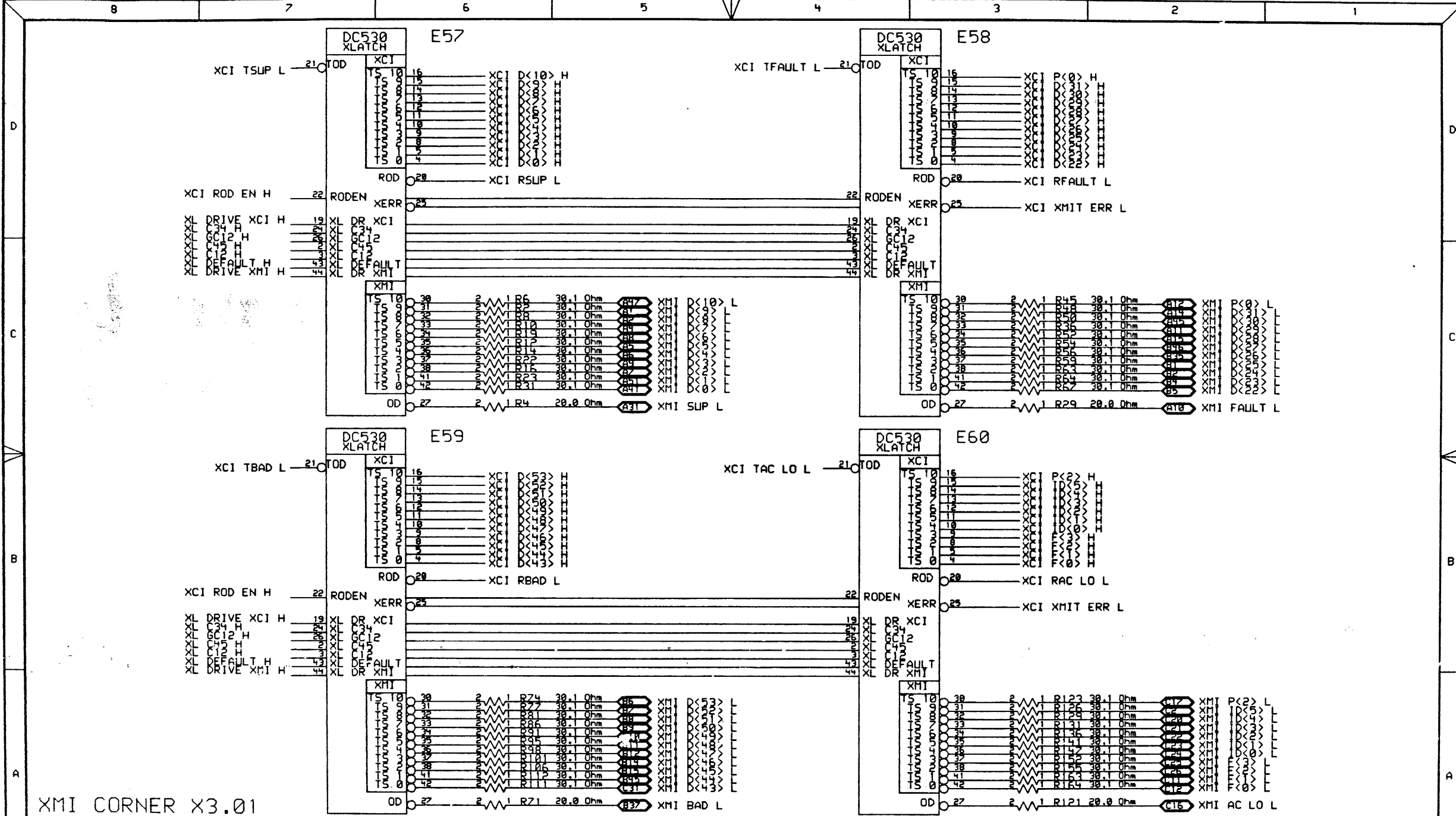
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V. TRIOLO	2-10-87	V. TRIOLO	2-10-87
CHK'D:	DATE	SHEET	OF
M. Goody	2-10-87	1	1
NEXT HIGHER ASSEMBLY:		K-DD-T2012-0-0	

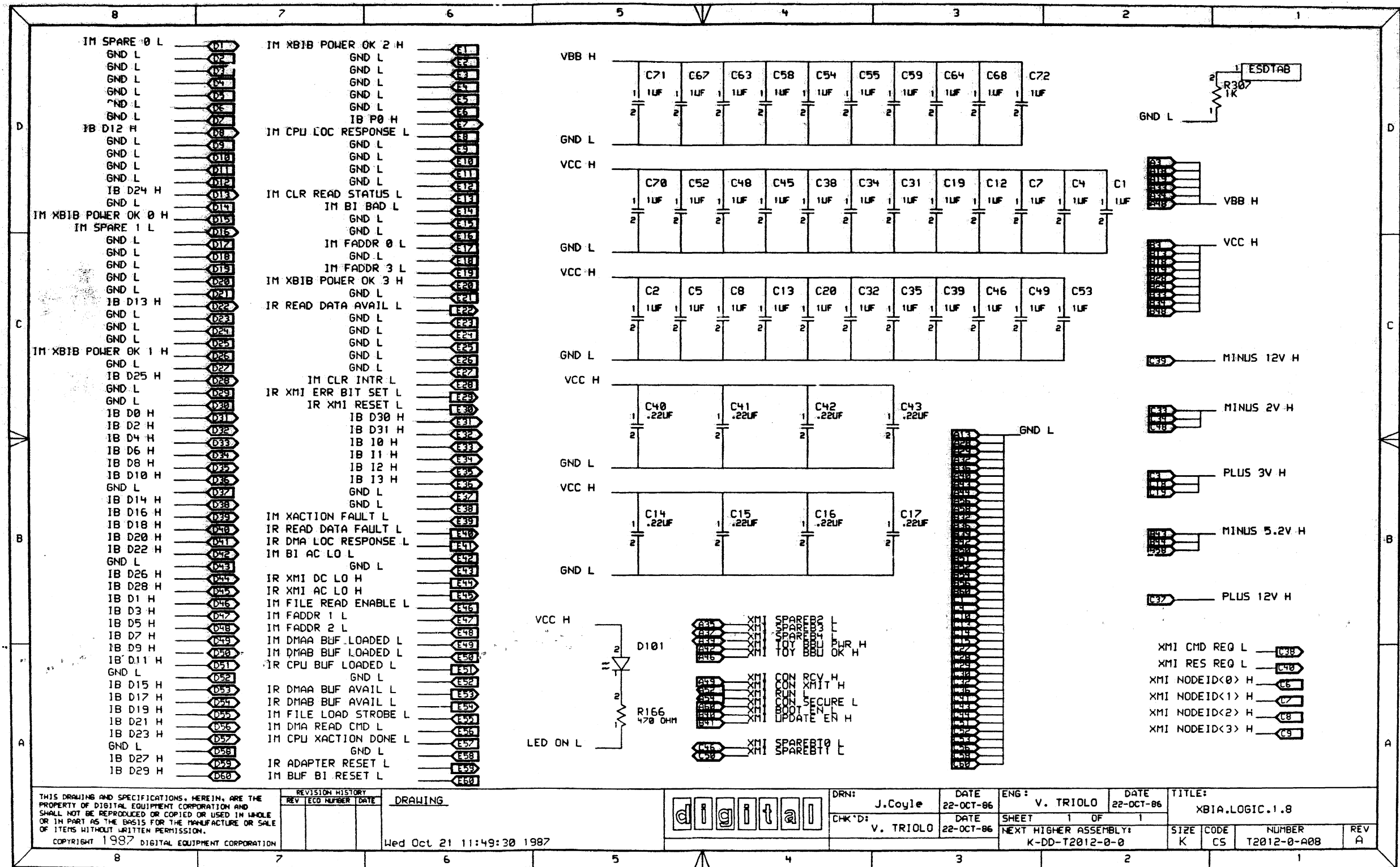
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K	CS	T2012-0-A05	A





XMI CORNER X3.01

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Wed Oct 21 11:51:47 1987					SHEET 1 OF 1 NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0	SIZE: K CODE: CS	NUMBER: T2012-0-A07	REV: A	



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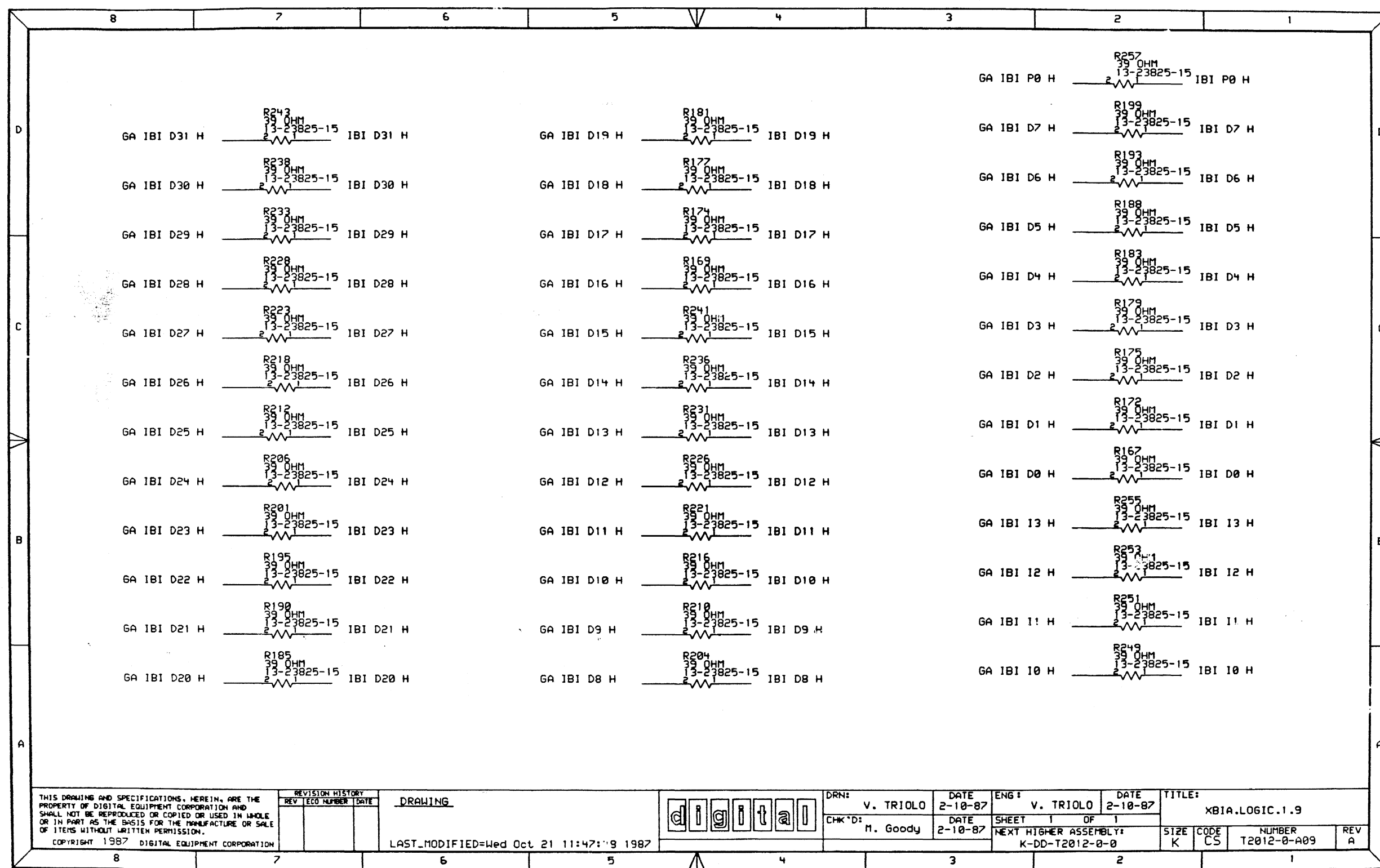
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DRAWING

Wed Oct 21 11:49:30 1987

digital

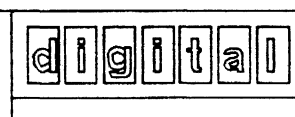
DRN: J.Coyle	DATE 22-OCT-86	ENG: V. TRIOLO	DATE 22-OCT-86	TITLE: XBI.A.LOGIC.1.8
CHK'D: V. TRIOLO	DATE 22-OCT-86	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0	SIZE K
			NUMBER T2012-0-A08	REV A



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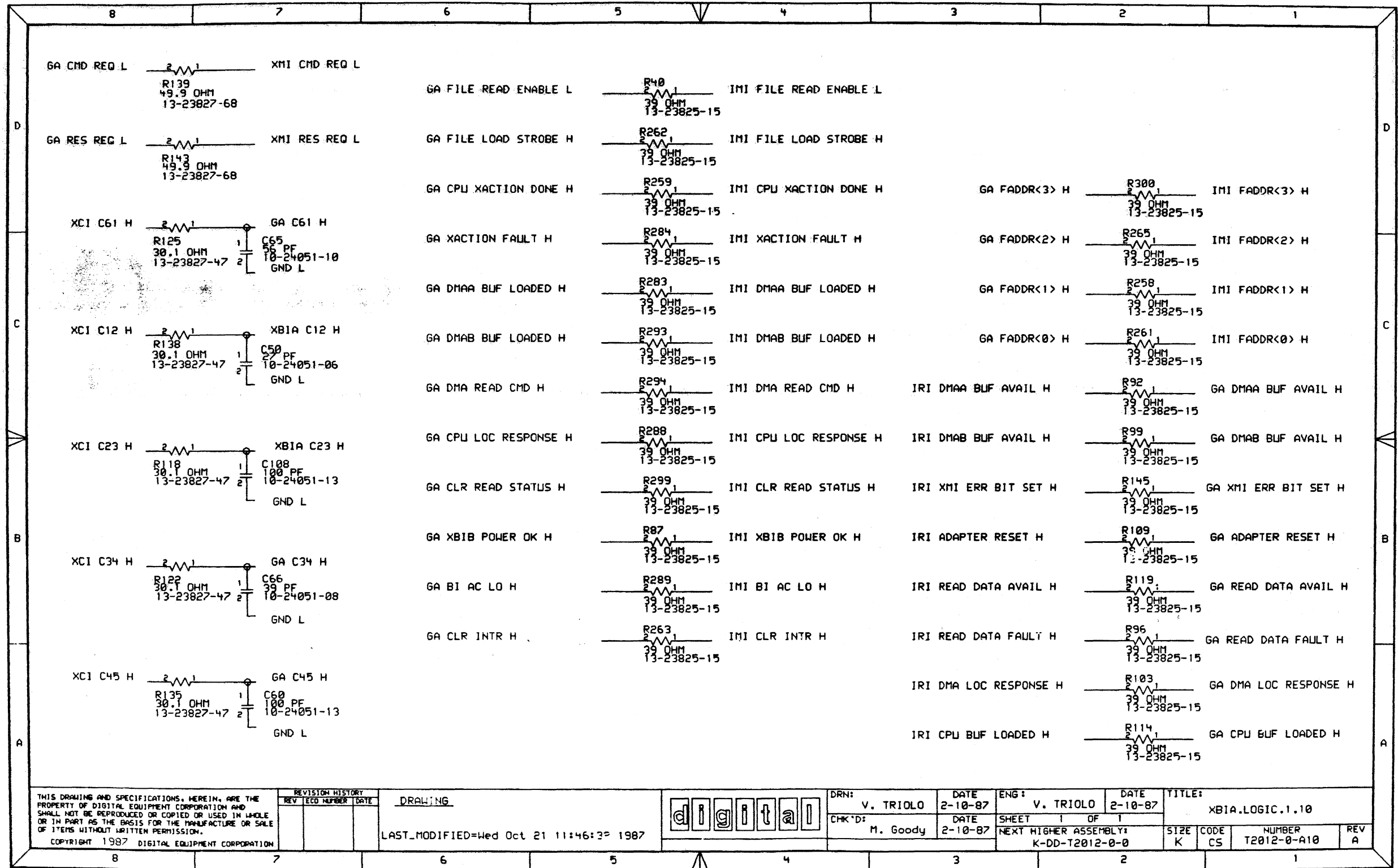


DRN: V. TRIOLO
 CHK'D: M. Goody

DATE 2-10-87
 DATE 2-10-87

ENG: V. TRIOLO
 SHEET 1 OF 1
 NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0

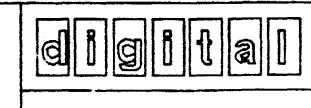
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 REV A



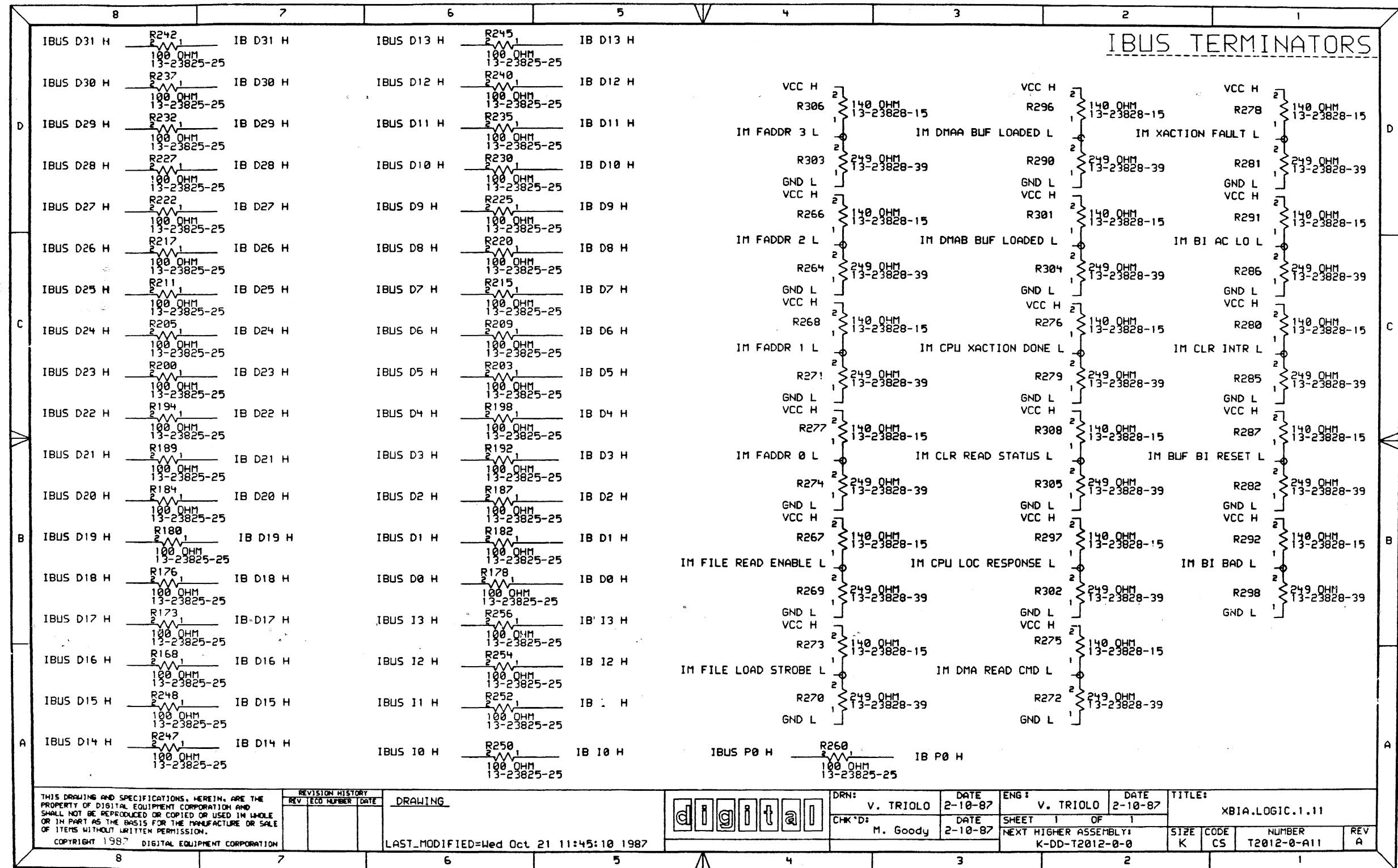
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REVISION HISTORY		
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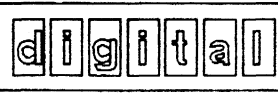
DRN: V. TRIOLO	DATE 2-10-87	ENG: V. TRIOLO	DATE 2-10-87	TITLE: XBIA.LOGIC.1.10
CHK'D: M. Goody	DATE 2-10-87	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0	SIZE CODE NUMBER REV K CS T2012-0-A10 A



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REVISION HISTORY		
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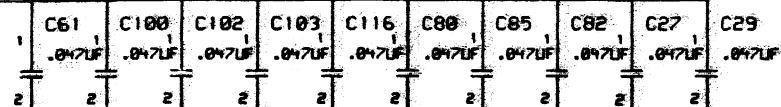
DRN: V. TRIOLO DATE 2-10-87
 CHK'D: M. Goody DATE 2-10-87

ENG: V. TRIOLO DATE 2-10-87
 SHEET 1 OF 1
 NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0

TITLE: XB1A.LOGIC.1.11
 SIZE K CODE CS NUMBER T2012-0-A11 REV A

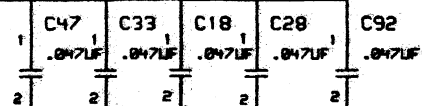
CAPACITORS

VCC H



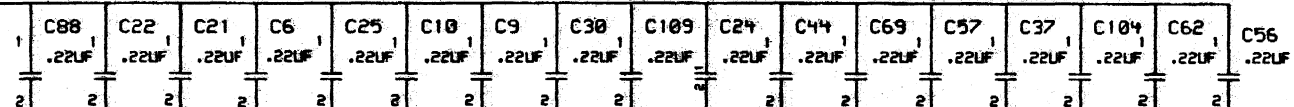
GND L

VCC H



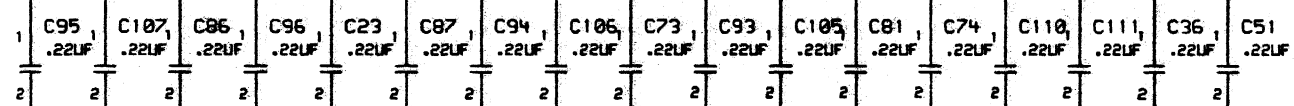
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VCC H



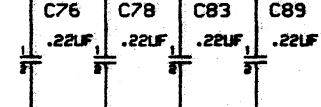
GND L

VCC H



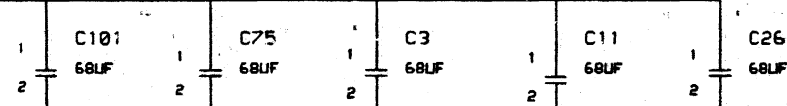
GND L

VCC H



GND L

VCC H



GND L

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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Wed Oct 21 11:43:37 1987

digital

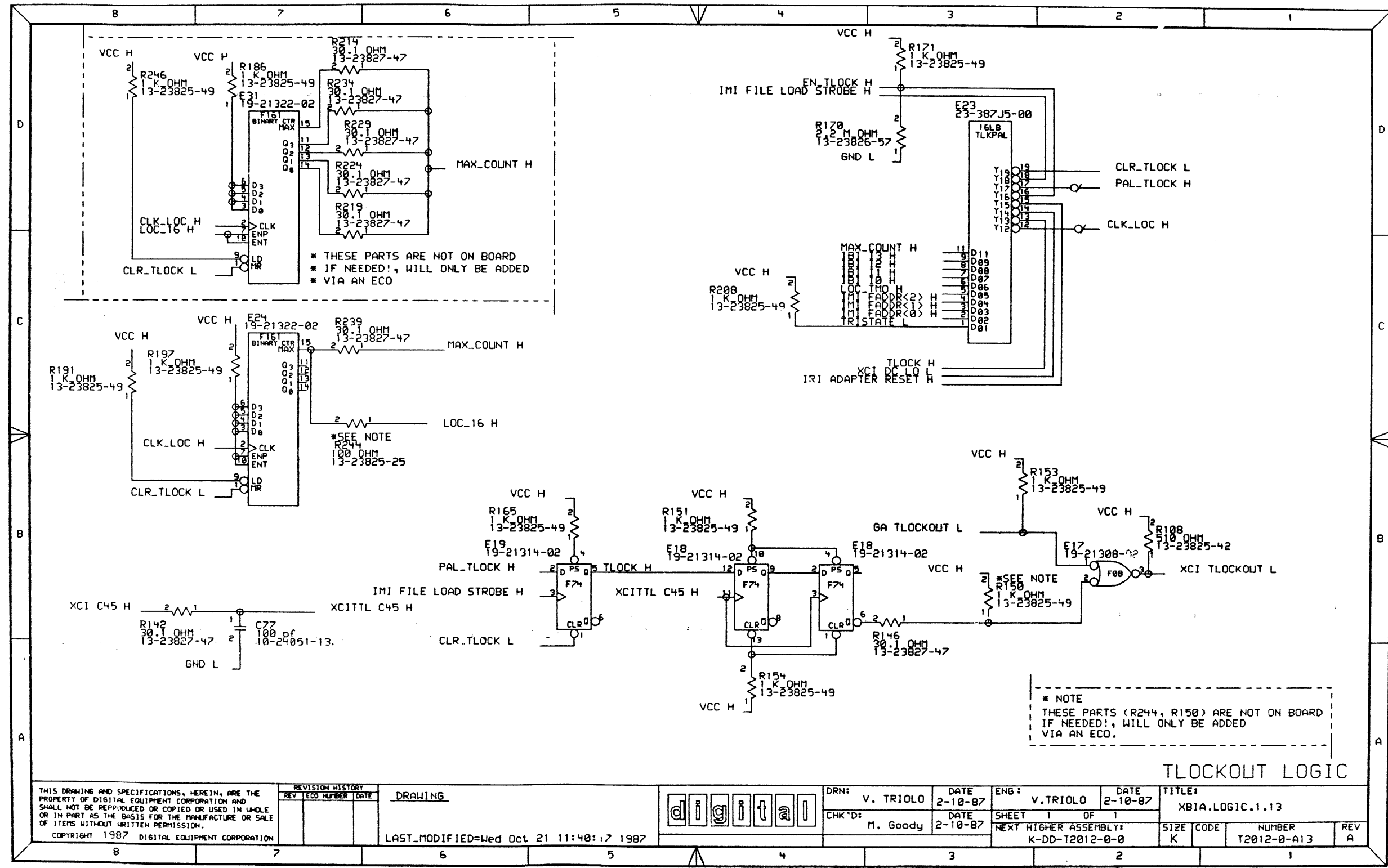
DRN: V. TRIOLO
CHK'D: M. Goody

DATE 2-10-87
DATE 2-10-87

ENG: V. TRIOLO
SHEET 1 OF 1

DATE 2-10-87
NEXT HIGHER ASSEMBLY:
K-DD-T2012-0-0

TITLE: XBIA.LOGIC.1.12
SIZE CODE NUMBER REV
K CS T2012-0-A12 A



TLOCKOUT LOGIC

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REVISION HISTORY		DRAWING
REV	ECO NUMBER	

LAST_MODIFIED=Wed Oct 21 11:40:17 1987

DRN:	V. TRIOLO	DATE	2-10-87	ENG:	V. TRIOLO	DATE	2-10-87	TITLE:	XBIA.LOGIC.1.13
CHK'D:	M. Goody	DATE	2-10-87	SHEET	1	OF	1	SIZE	CODE
NEXT HIGHER ASSEMBLY:				K-DD-T2012-0-0		NUMBER		REV	
						T2012-0-A13		A	

SIGNAL CROSS REFERENCE

SIGNAL CROSS REFERENCE FOR T2012 MODULE

LOCATIONS ARE LISTED AS ppzz, WHERE pp IS DRAWING NUMBER
K-CS-T2012-0-App AND zz IS GRID ZONE WITHIN THE PAGE:

D8 D7 D6 D5 D4 D3 D2 D1
C8 C7 C6 C5 C4 C3 C2 C1
B8 B7 B6 B5 B4 B3 B2 B1
A8 A7 A6 A5 A4 A3 A2 A1

SIGNAL NAME LOCS (ARROWS) MARK SOURCES)

CLK_LOC H 13B7 13C2> 13D7
CLR_TLOCK L 13B5 13B7 13C7 13D2>
CMP_EN L 02B2> 05A4 05A6
ENABLE_IBUS_DRIVERS L 02C5 02C7 04C2>
EN_TLOCK H 13D3>
GA_ADAPTER_RESET H 01A5> 10B1
GA_B1_AC_LO_H 01A5 10B5>
GA_C34_H 01B4 10B7>
GA_C45_H 01B4 10A7>
GA_C61_H 01B4 10D7>
GA_CLR_INTR_H 01A5 10B5>
GA_CLR_READ_STATUS_H 01B5 10B5>
GA_CMD_REQ_L 01B4> 10D8
GA_CPU_BUF_LOADED_H 01B5> 10A1
GA_CPU_LOC_RESPONSE_H 01B5 10C5>
GA_CPU_XACTION_DONE_H 01B5 10D5>
GA_DMA_LOC_RESPONSE_H 01B5> 10A1
GA_DMA_READ_CMD_H 01B5 10C5>
GA_DMAA_BUF_AVAIL_H 01B5> 10C1
GA_DMAA_BUF_LOADED_H 01B5 10C5>
GA_DMAB_BUF_AVAIL_H 01B5> 10C1
GA_DMAB_BUF_LOADED_H 01B5 10C5>
GA_FADDR<0>_H 01B5 10C2>
GA_FADDR<1>_H 01B5 10C2>
GA_FADDR<2>_H 01B5 10C2>
GA_FADDR<3>_H 01B5 10D2>
GA_FILE_LOAD_STROBE_H 01B5 10D5>
GA_FILE_READ_ENABLE_L 01B5 10D5>
GA_IBI_D0_H 01C5> 09B2>
GA_IBI_D1_H 01C5> 09C2>
GA_IBI_D10_H 01C5> 09B5>

SIGNAL NAME LOCS (ARROWS) MARK SOURCES)

GA_IBI_D11_H 01C5> 09B5>
GA_IBI_D12_H 01C5> 09B5>
GA_IBI_D13_H 01C5> 09C5>
GA_IBI_D14_H 01C5> 09C5>
GA_IBI_D15_H 01C5> 09C5>
GA_IBI_D16_H 01C5> 09C5>
GA_IBI_D17_H 01C5> 09D5>
GA_IBI_D18_H 01C5> 09D5>
GA_IBI_D19_H 01C5> 09D5>
GA_IBI_D2_H 01C5> 09C2>
GA_IBI_D20_H 01C5> 09A8>
GA_IBI_D21_H 01C5> 09B8>
GA_IBI_D22_H 01C5> 09B8>
GA_IBI_D23_H 01C5> 09B8>
GA_IBI_D24_H 01D5> 09B8>
GA_IBI_D25_H 01D5> 09C8>
GA_IBI_D26_H 01D5> 09C8>
GA_IBI_D27_H 01D5> 09C8>
GA_IBI_D28_H 01D5> 09C8>
GA_IBI_D29_H 01D5> 09D8>
GA_IBI_D3_H 01C5> 09C2>
GA_IBI_D30_H 01D5> 09D8>
GA_IBI_D31_H 01D5> 09D8>
GA_IBI_D4_H 01C5> 09C2>
GA_IBI_D5_H 01C5> 09D2>
GA_IBI_D6_H 01C5> 09D2>
GA_IBI_D7_H 01C5> 09D2>
GA_IBI_D8_H 01C5> 09A5>
GA_IBI_D9_H 01C5> 09B5>
GA_IBI_D9_H 01D5> 09A2>
GA_IBI_I1_H 01D5> 09B2>
GA_IBI_I2_H 01D5> 09B2>
GA_IBI_I3_H 01D5> 09B2>
GA_IBI_P0_H 01D5> 09D2>
GA_READ_DATA_AVAIL_H 01B5> 10B1
GA_READ_DATA_FAULT_H 01B5> 10B1
GA_RES_REQ_L 01B4> 10D8

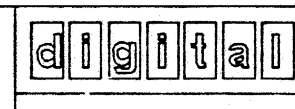
SIGNAL NAME LOCS (ARROWS) MARK SOURCES)

GA_TLOCKOUT_L 01B2> 13B3
GA_XACTION_FAULT_H 01B5 10D5>
GA_XBIB_POWER_OK_H 01A5 10B5>
GA_XMI_ERR_BIT_SET_H 01A5> 10B1
GND_L 08C3>
IB_D0_H 08C8> 11B5>
IB_D1_H 08B8> 11B5>
IB_D10_H 08B8> 11D5>
IB_D11_H 08A8> 11D5>
IB_D12_H 08D8> 11D5>
IB_D13_H 08C8> 11D5>
IB_D14_H 08B8> 11A7>
IB_D15_H 08A8> 11A7>
IB_D16_H 08B8> 11A7>
IB_D17_H 08A8> 11B7>
IB_D18_H 08B8> 11B7>
IB_D19_H 08A8> 11B7>
IB_D2_H 08C8> 11B5>
IB_D20_H 08B8> 11B7>
IB_D21_H 08A8> 11B7>
IB_D22_H 08B8> 11C7>
IB_D23_H 08A8> 11C7>
IB_D24_H 08D8> 11C7>
IB_D25_H 08C8> 11C7>
IB_D26_H 08B8> 11C7>
IB_D27_H 08A8> 11D7>
IB_D28_H 08B8> 11D7>
IB_D29_H 08A8> 11D7>
IB_D3_H 08B8> 11B5>
IB_D30_H 08C6> 11D7>
IB_D31_H 08C6> 11D7>
IB_D4_H 08B8> 11C5>
IB_D5_H 08B8> 11C5>
IB_D6_H 08B8> 11C5>
IB_D7_H 08B8> 11C5>
IB_D8_H 08B8> 11C5>
IB_D9_H 08A8> 11D5>

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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING
LAST_MODIFIED=Wed Oct 21 11:36:26 1987



DRN:	V. TRIOLO	DATE	7-21-87	ENG:	V. TRIOLO	DATE	7-21-87	TITLE:	XBIA.LOGIC.1.14			
CHK'D:	M. Goody	DATE	7-21-87	SHEET	1	OF	1	NEXT HIGHER ASSEMBLY:	SIZE	CODE	NUMBER	REV
									K	CS	T2012-0-A14	A

SIGNAL CROSS REFERENCE

SIGNAL NAME	LOCS (ARROWS) MARK SOURCES)	SIGNAL NAME	LOCS (ARROWS) MARK SOURCES)	SIGNAL NAME	LOCS (ARROWS) MARK SOURCES)
IB I0 H	08B6> 11A5>	IBI I0 H	02A7> 09A1> 13C3	IBUS I0 H	02A6> 11A6>
IB I1 H	08B6> 11A5>	IBI I1 H	02A7> 09B1> 13C3	IBUS I1 H	02A6> 11A6>
IB I2 H	08B6> 11A5>	IBI I2 H	02B7> 09B1> 13C3	IBUS I2 H	02B6> 11A6>
IB I3 H	08B6> 11B5>	IBI I3 H	02B7> 09B1> 13C3	IBUS I3 H	02B6> 11B6>
IB P0 H	08D6> 11A3>	IBI P0 H	02B7> 09D1>	IBUS P0 H	02B6> 11A4>
IBI D0 H	02B5> 09B1>	IBUS D0 H	02B4> 11B6>	IM BI AC LO L	03B2 08B6> 11C1
IBI D1 H	02B5> 09C1>	IBUS D1 H	02B4> 11B6>	IM BI BAD L	03A2 08D6> 11B1
IBI D10 H	02D5> 09B4>	IBUS D10 H	02D4> 11D6>	IM BUF BI RESET L	03A2 08A6> 11B1
IBI D11 H	02D5> 09B4>	IBUS D11 H	02D4> 11D6>	IM CLR INTR L	03B2 08C6> 11C1
IBI D12 H	02D5> 09B4>	IBUS D12 H	02D4> 11D6>	IM CLR READ STATUS L	03D2 08D6> 11B2
IBI D13 H	02D5> 09C4>	IBUS D13 H	02D4> 11D6>	IM CPU LOC RESPONSE L	03C2 08D6> 11B2
IBI D14 H	02D5> 09C4>	IBUS D14 H	02D4> 11A8>	IM CPU XACTION DONE L	03D2 08A6> 11C2
IBI D15 H	02D5> 09C4>	IBUS D15 H	02D4> 11A8>	IM DMA READ CMD L	03C2 08A6> 11A2
IBI D16 H	02B7> 09C4>	IBUS D16 H	02B6> 11A8>	IM DMAA BUF LOADED L	03B6 08B6> 11D2
IBI D17 H	02B7> 09D4>	IBUS D17 H	02B6> 11B8>	IM DMAB BUF LOADED L	03B6 08A6> 11C2
IBI D18 H	02B7> 09D4>	IBUS D18 H	02B6> 11B8>	IM FADDR 0 L	03C6 08C6> 11B4
IBI D19 H	02C7> 09D4>	IBUS D19 H	02C6> 11B8>	IM FADDR 1 L	03C6 08B6> 11C4
IBI D2 H	02B5> 09C1>	IBUS D2 H	02B4> 11B6>	IM FADDR 2 L	03D6 08B6> 11C4
IBI D20 H	02C7> 09A7>	IBUS D20 H	02C6> 11B8>	IM FADDR 3 L	03D6 08C6> 11D4
IBI D21 H	02C7> 09B7>	IBUS D21 H	02C6> 11B8>	IM FILE LOAD STROBE L	03B6 08A6> 11A4
IBI D22 H	02C7> 09B7>	IBUS D22 H	02C6> 11C8>	IM FILE READ ENABLE L	03C6 08B6> 11B4
IBI D23 H	02C7> 09B7>	IBUS D23 H	02C6> 11C8>	IM SPARE 0 L	08D8>
IBI D24 H	02C7> 09B7>	IBUS D24 H	02C6> 11C8>	IM SPARE 1 L	08D8>
IBI D25 H	02C7> 09C7>	IBUS D25 H	02C6> 11C8>	IM XACTION FAULT L	03C2 08B6> 11D1
IBI D26 H	02D7> 09C7>	IBUS D26 H	02D6> 11C8>	IM XBIB POWER OK 0 H	04C3 08D8>
IBI D27 H	02D7> 09C7>	IBUS D27 H	02D6> 11D8>	IM XBIB POWER OK 1 H	04C3 08C8>
IBI D28 H	02D7> 09C7>	IBUS D28 H	02D6> 11D8>	IM XBIB POWER OK 2 H	04C3 08D6>
IBI D29 H	02D7> 09D7>	IBUS D29 H	02D6> 11D8>	IM XBIB POWER OK 3 H	04C3 08C6>
IBI D3 H	02C5> 09C1>	IBUS D3 H	02C4> 11B6>	IMI BI AC LO H	03B2> 10B4
IBI D30 H	02D7> 09D7>	IBUS D30 H	02D6> 11D8>	IMI BI BAD H	03A2> 04A3
IBI D31 H	02D7> 09D7>	IBUS D31 H	02D6> 11D8>	IMI BUF BI RESET H	03A2> 04B3
IBI D4 H	02C5> 09C1>	IBUS D4 H	02C4> 11C6>	IMI CLR INTR H	03B2> 10B4
IBI D5 H	02C5> 09D1>	IBUS D5 H	02C4> 11C6>	IMI CLR READ STATUS H	03D2> 10B4
IBI D6 H	02C5> 09D1>	IBUS D6 H	02C4> 11C6>	IMI CPU LOC RESPONSE H	03C2> 10C4
IBI D7 H	02C5> 09D1>	IBUS D7 H	02C4> 11C6>	IMI CPU XACTION DONE H	03D2> 10D4
IBI D8 H	02C5> 09A4>	IBUS D8 H	02C4> 11C6>	IMI DMA READ CMD H	03C2> 10C4
IBI D9 H	02C5> 09B4>	IBUS D9 H	02D4> 11D6>	IMI DMAA BUF LOADED H	03B6> 10C4

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			LAST_MODIFIED=Wed Oct 21 11:31:31 1987		CHK'D: M. Goody	DATE 7-21-87	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0

SIGNAL CROSS REFERENCE

SIGNAL NAME LOCS (ARROWS) MARK SOURCES)

IMI DMAB BUF LOADED H 03B6> 10C4
 IMI FADDR<0> H 03C6> 10C1 13C3
 IMI FADDR<1> H 03C6> 10C1 13C3
 IMI FADDR<2> H 03D6> 10C1 13C3
 IMI FADDR<3> H 03D6> 10D1
 IMI FILE LOAD STROBE H 03B6> 10D4 13B5 13D3
 IMI FILE READ ENABLE H 02C5 02C7 03C6> 04A3
 IMI FILE READ ENABLE L 04A2> 10D4
 IMI XACTION FAULT H 03C2> 10D4
 IMI XBIB POWER OK H 04B3 04C2> 10B4
 IR ADAPTER RESET L 04D6> 08A6
 IR CPU BUF LOADED L 04B6> 08A6
 IR DMA LOC RESPONSE L 04B6> 08B6
 IR DMAA BUF AVAIL L 04D2> 08A6
 IR DMAB BUF AVAIL L 04D2> 08A6
 IR READ DATA AVAIL L 04C6> 08C6
 IR READ DATA FAULT L 04C6> 08B6
 IR XMI AC LO H 04A6> 08B6
 IR XMI DC LO H 04A6> 08B6
 IR XMI ERR BIT SET L 04C6> 08C6
 IR XMI RESET L 04D6> 08C6
 IRI ADAPTER RESET H 04D7 10B2> 13C3
 IRI CPU BUF LOADED H 04B7 10A2>
 IRI DMA LOC RESPONSE H 04B7 10A2>
 IRI DMAA BUF AVAIL H 04D3 10C2>
 IRI DMAB BUF AVAIL H 04D3 10C2>
 IRI READ DATA AVAIL H 04C7 10B2>
 IRI READ DATA FAULT H 04C7 10B2>
 IRI XMI ERR BIT SET H 04C7 10B2>
 LED ON H 01B4> 04B3
 LED ON L 04B2> 08A5
 LOC_16 H 13C6> 13D7
 LOC_TMO H 05B4> 13C3
 MAX_COUNT H 13C3 13C6> 13D6>
 MINUS 12V H 08C1>
 MINUS 2V H 08C1>
 MINUS 5.2V H 08B1>

SIGNAL NAME LOCS (ARROWS) MARK SOURCES)

PAL_TLOCK H 13B5 13D2>
 PLUS 12V H 08B1>
 PLUS 3V H 08B1>
 PULDOWN L 02A2> 05A4 05A6
 PULDOWN2 L 02A2> 04A7
 PUP H 02B2> 05A6 05B4
 RSM_STATE<0> H 01A3>
 RSM_STATE<1> H 01A3>
 RSM_STATE<2> H 01A3>
 RSM_STATE<3> H 01A3>
 TLOCK H 13B5> 13C3
 TMO CNT 0 H 05B4 05D7>
 TMO CNT 1 H 05B4 05D7>
 TMO CNT 10 H 05B6 05D4>
 TMO CNT 11 H 05B6 05D4>
 TMO CNT 12 H 05B6 05D3>
 TMO CNT 13 H 05B6 05D3>
 TMO CNT 14 H 05B6 05D3>
 TMO CNT 15 H 05B6 05D3>
 TMO CNT 16 H 05B6 05D1>
 TMO CNT 17 H 05B6 05D1>
 TMO CNT 2 H 05B4 05D7>
 TMO CNT 3 H 05B4 05D7>
 TMO CNT 4 H 05B4 05D5>
 TMO CNT 5 H 05B4 05D5>
 TMO CNT 6 H 05B4 05D5>
 TMO CNT 7 H 05B4 05D5>
 TMO CNT 8 H 05B6 05D4>
 TMO CNT 9 H 05B6 05D4>
 TRISTATE L 13C3>
 TSM_STATE<0> H 01A3>
 TSM_STATE<1> H 01A3>
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 VCC H 08C1>

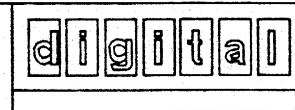
SIGNAL NAME LOCS (ARROWS) MARK SOURCES)

XBI CLR TMO H 01B4> 05C8
 XBI DIAG CLR L 01A4 02C2>
 XBI GA TEST EN H 01A4 02C2>
 XBI IV100 IN H 01A4 02B2>
 XBI KMODE L 01A5 02C2>
 XBI NOACKCNT H 01B4 05B5>
 XBI REV<0> H 01B4 02A3>
 XBI REV<1> H 01B4 02A4>
 XBI REV<2> H 01B4 02A5>
 XBI REV<3> H 01B4 02A6>
 XBI TIMEOUT H 01B4 05B1>
 XBIA C12 H 05C8 10C7>
 XBIA C23 H 04A7 10B7>
 XCI C12 H 06D5> 10C8
 XCI C23 H 06D5> 10B8
 XCI C34 H 06D5> 10B8
 XCI C45 H 06D5> 10A8 13A8
 XCI C56 H 06D5>
 XCI C61 H 06D5> 10D8
 XCI CNF ERR L 01C4 06D5>
 XCI D<0> H 01D8> 07D6>
 XCI D<10> H 01D8> 07D6>
 XCI D<11> H 01D8> 06B2>
 XCI D<12> H 01C8> 06B2>
 XCI D<13> H 01C8> 06B2>
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 XCI D<24> H 01C8> 07D3>

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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING
 LAST_MODIFIED=Wed Oct 21 11:30:57 1987



DRN: V. TRIOLO
 DATE: 7-21-87
 CHK'D: M. Goody
 DATE: 7-21-87

ENG: V. TRIOLO
 DATE: 7-21-87
 SHEET 1 OF 1
 NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0

TITLE: XBIA.LOGIC.1.16
 SIZE: K
 CODE: CS
 NUMBER: T2012-0-A16
 REV: A

SIGNAL CROSS REFERENCE

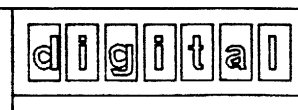
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XCI D<26> H	01C8> 07D3>	XCI D<5> H	01D8> 07D6>	XCI TBAD L	04A2> 07B7
XCI D<27> H	01C8> 07D3>	XCI D<60> H	01B8> 06D2>	XCI TCNF<0> L	01C2> 06D6
XCI D<28> H	01C8> 07D3>	XCI D<61> H	01A8> 06D2>	XCI TCNF<1> L	01C2> 06D6
XCI D<29> H	01C8> 07D3>	XCI D<62> H	01A8> 06D2>	XCI TFAULT L	01B2> 07D4
XCI D<2> H	01D8> 07D6>	XCI D<63> H	01A8> 06D2>	XCI TLOCKOUT L	06D3 13B2>
XCI D<30> H	01C8> 07D3>	XCI D<6> H	01D8> 07D6>	XCI TRESET L	04B2> 06B3
XCI D<31> H	01C8> 07D3>	XCI D<7> H	01D8> 07D6>	XCI TSPARE0 L	02D2> 06B6
XCI D<32> H	01C8> 06B5>	XCI D<8> H	01D8> 07D6>	XCI TSUP L	02B2> 07D7
XCI D<33> H	01C8> 06B5>	XCI D<9> H	01D8> 07D6>	XCI XCLOCK EN H	06D6>
XCI D<34> H	01C8> 06B5>	XCI DC LO L	01C4 04A7 06D5> 13C3	XCI XMIT ERR L	01C2 06B1> 06D2> 07B3> 07D3>
XCI D<35> H	01C8> 06B5>	XCI F<0> H	01D4> 07B3>	XCITTL C45 H	13B4 13B7>
XCI D<36> H	01C8> 06B5>	XCI F<1> H	01D4> 07B3>	XL C12 H	06B6 06C2 06C5> 07B7 07D7
XCI D<37> H	01C8> 06B5>	XCI F<2> H	01D4> 07B3>	XL C34 H	06B6 06D2 06D5> 07B7 07D7
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XCI D<39> H	01B8> 06B5>	XCI GC12 EN H	01C2> 06D6	XL DEFAULT H	06B6 06C2 06C5> 07B7 07C7
XCI D<3> H	01D8> 07D6>	XCI GRANT L	01C4 06D5>	XL DRIVE XCI H	06B6 06D2 06D5> 07B7 07D7
XCI D<40> H	01B8> 06B5>	XCI HOLD EN H	01C2> 06D6	XL DRIVE XMI H	06A6 06C2 06C5> 07A7 07C7
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XCI D<43> H	01B8> 07B6>	XCI ID<2> H	01D4> 07B3>	XMI BAD L	07A5>
XCI D<44> H	01B8> 07B6>	XCI ID<3> H	01D4> 07B3>	XMI BOOT EN L	08A4>
XCI D<45> H	01B8> 07B6>	XCI ID<4> H	01D4> 07B3>	XMI CMD REQ L	08A1 10D7>
XCI D<46> H	01B8> 07B6>	XCI ID<5> H	01D4> 07B3>	XMI CNF<0> L	06C4>
XCI D<47> H	01B8> 07B6>	XCI NULL EN H	02B2> 06D6	XMI CNF<1> L	06C4>
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XCI D<57> H	01B8> 06D2>	XCI RRESET L	04D7 06B2>	XMI D<15> L	06A1>
XCI D<58> H	01B8> 06D2>	XCI RSPARE0 L	06B5>	XMI D<16> L	06A1>
		XCI RSUP L	07D6>		

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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Wed Oct 21 11:29:44 1987



DRN:	V. TRILO	DATE	7-21-87	ENG:	V. TRILO	DATE	7-21-87
CHK'D:	M. Goody	DATE	7-21-87	SHEET	OF	NEXT HIGHER ASSEMBLY:	
				K-DD-T2012-0-0		SIZE	CODE
						K	CS

TITLE:			
XBIA.LOGIC.1.17			
NUMBER	REV		
T2012-0-A17	A		

SIGNAL CROSS REFERENCE

SIGNAL NAME	LOCS (ARROWS > MARK SOURCES)	SIGNAL NAME	LOCS (ARROWS > MARK SOURCES)	SIGNAL NAME	LOCS (ARROWS > MARK SOURCES)
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XMI D<18> L	06A1>	XMI D<51> L	07A5>	XMI NODEID<3> H	01B4 08A1>
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XMI D<21> L	06A1>	XMI D<55> L	06C1>	XMI PHASE L	06C6>
XMI D<22> L	07C2>	XMI D<56> L	06C1>	XMI RES REQ L	08A1 10D7>
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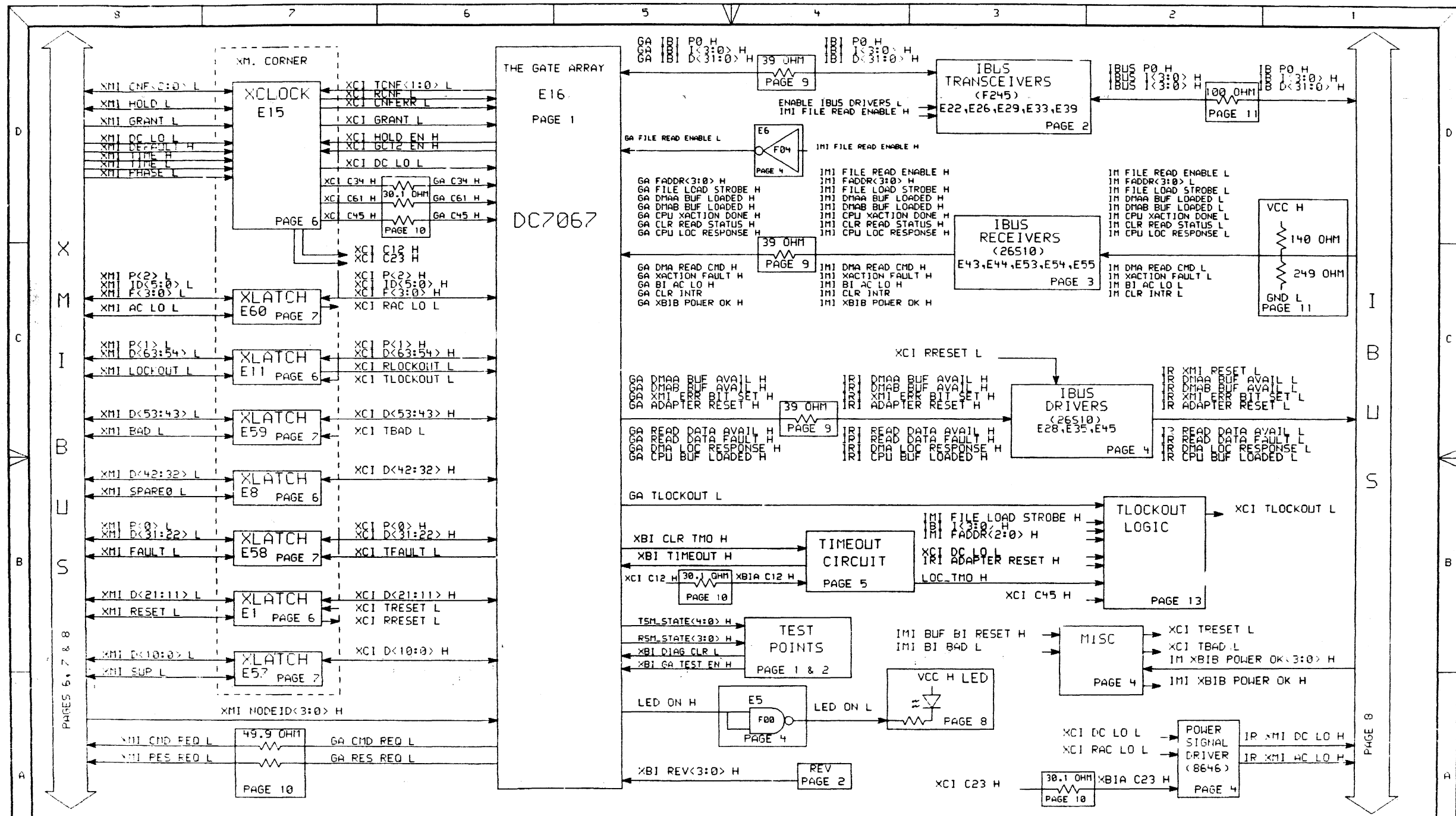
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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Wed Oct 21 11:26:40 1987

digital	DRN: V. TRIOLO	DATE: 7-21-87	ENG: V. TRIOLO	DATE: 7-21-87	TITLE: XBIA.LOGIC.1.18
	CHK'D: M. Goody	DATE: 7-21-87	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0	SIZE: K
				CODE: CS	NUMBER: T2012-0-A18
				REV: A	



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---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	-----------------------------------------	-----------------------------------------------------------------------------------------	---------	---------------------------------------------------------------------	-----------------------------------------------------------------------------------------	-----------------------------------------------------------------------------

DC7067 GATE ARRAY PINOUT
AS VIEWED FROM SIDE 2

V	VSS	VDD						VSS	VDD	VSS						VSS	VDD	
U	VDD	VSS														VDD	VSS	
T																		
R																		
P																		
N																		
M																		
L																	VSS	
K	VDD																VDD	
J	VSS																VSS	
H	VDD																	
G																		
F																		
E																		
D																		
C																		
B	VDD	VSS														VSS	VDD	
A	KEY	VDD					VSS	VDD	VSS							VDD	VSS	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

SIDE 2

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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING
LAST_MODIFIED=Mon Nov 23 15:12:37 1987

DEFINE
X_FIRST=0
X_STEP=SIZE



DRN: M. Goody
CHK'D: M. Goody

DATE 11/16/87
DATE 11/16/87

ENG: V. Triolo
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: K-DD-T2012-0-0
TITLE: DC7067 Pinout SIDE 2
SIZE K CODE BD NUMBER T2012-0-A02 REV A

AUTOMATED BY XAKPL (V1.3)

PARTS LIST

SHEET 01 OF 02

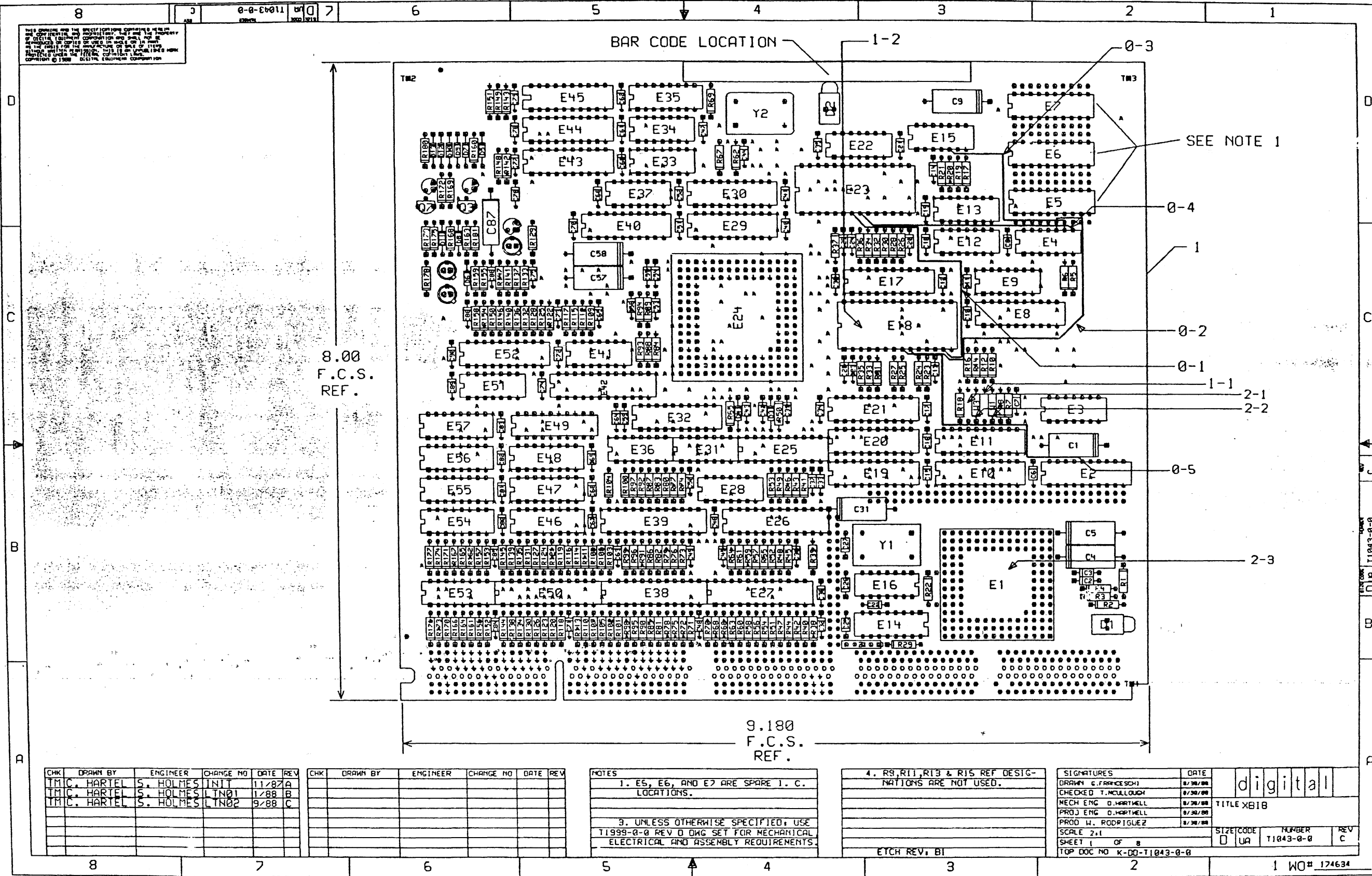
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1	1		50-17393-01		CIRCUIT DRILL/ETCH	1		
2	2		10-24051-06	37	PFD 50V +/- 5% NPO CE	1		C50
3	3		10-24051-06	39	PFD 50V +/- 5% NPO CE	1		C66
4	4		10-24051-10	56	PFD 50V +/- 5% NPO CE	1		C65
5	5		10-24051-13	100	PFD 50V +/- 5% NPO CE	3		C60, C77, C102
6	6		10-24053-07		0.047MFD 50V +/- 20% Z5U CE	15		C18, C27-C29, C33, C47, C61, C80, CONT C82, C85, C92, C100, C102, C103, C116
7	7		10-24053-12		0.22 MFD 50V +/- 20% Z5U CE	46		C6, C9, C10, C14-C17, C21-C25, C30, CONT C36, C37, C40-C44, C51, C56, C57, CONT C62, C69, C73, C74, C76, C78, C81, CONT C83, C86-C89, C93-C96, C104-C107, CONT C109-C111
8	8		10-24053-18		1.0 MFD 25V +/- 20% Z5U CE	33		C1, C2, C4, C5, C7, C8, C12, C13, C19, CONT C20, C31, C32, C34, C35, C38, C39, CONT C45, C46, C48, C49, C52-C55, C58, CONT C59, C63, C64, C67, C68, C70-C72 C3, C11, C26, C75, C101
9	9		10-24455-26		68 MFD 6.0V +/- 20% CHI	5		D101
10	10		11-17373-02		LED ASSY, YELLOW	1		
11	11		13-23825-15		39.0 .25 W 5.0 % CHIP	61		R40, R37, R92, R96, R99, R103, R109, CONT R114, R119, R145, R167, R169, R172, CONT R174, R175, R177, R179, R181, R183, CONT R185, R188, R190, R193, R195, R199, CONT R201, R204, R206, R210, R212, R216, CONT R218, R221, R223, R226, R228, R231, CONT R233, R236, R238, R241, R243, R249, CONT R251, R253, R255, R257-R259, CONT R261-R263, R265, R283, R284, R288, CONT R289, R293, R294, R299, R300 R37, R46, R61, R83, R88, R89, R110, CONT R133, R168, R173, R176, R178, R180, CONT R182, R184, R187, R189, R192, R194, CONT R198, R200, R203, R205, R209, R211,
12	12		13-23825-25	100.0	.25 W 5.0 % CHIP	46		

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: C. HARTEL		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE:	DATE:	CHK'D:	TITLE	DOCUMENT NUMBER	REV
AVT	INIT	A	[[A]] 00	[[M]]	17-AUG-87	T. MCCULLOUGH	PARTS LIST		
ARD	T2012-LT1001	B	[[B]]	[[N]]	17-AUG-87		XBIA MODULE		
			[[C]]	[[P]]		V. TRIOLO			
			[[D]]	[[Q]]	17-AUG-87				
			[[E]]	[[R]]					
			[[F]]	[[S]]		V. TRIOLO			
			[[H]]	[[T]]	17-AUG-87				
			[[J]]	[[V]]					
			[[K]]	[[W]]		G. VICKS			
			[[L]]	[[Y]]	17-AUG-87				
		BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
		T2012		E-UA-T2012-0-0		K-00-T2012-0-0		T2012B3.PLS	
								RELEASE DATE: 10-FEB-88	
								RELEASE STATUS: RELEASED	
								EDIT #	
								4	

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	QTY	MIN REV	DESCRIPTION	PER VAR/REV	REFERENCE DESIGNATORS
13	13		13-23825-41	470.0		.25 W 5.0 % CHIP	1	CONT R215, R217, R220, R222, R225, R227,
14	14		13-23825-42	510.0		.25 W 5.0 % CHIP	1	CONT R230, R232, R235, R237, R240, R242,
15	15		13-23825-49	1.0	K	.25 W 5.0 % CHIP	37	CONT R245, R247, R248, R250, R252, R254, CONT R256, R260, R295 R166 R108 R17, R20, R25, R27, R32, R33, R38, CONT R42, R43, R57, R58, R72, R75, R78, CONT R79, R93, R104, R105, R113, R115, CONT R116, R124, R127, R128, R151, R153, CONT R154, R165, R171, R191, R196, R197, CONT R202, R207, R208, R213, R307 R21, R26, R34, R39, R170 R4, R24, R29, R68, R71, R120, R121, CONT R130, R132, R134, R137 R1-R3, R5-R16, R18, R19, R22, R23, CONT R28, R30, R31, R35, R36, R41, R44, CONT R45, R47-R56, R59, R60, R62-R67, CONT R69, R70, R73, R74, R76, R77, CONT R80-R82, R84-R86, R90, R91, R94, CONT R95, R97, R98, R100-R102, R106, CONT R107, R111, R112, R117, R118, R122, CONT R123, R125, R126, R129, R131, R135, CONT R136, R138, R140-R142, R144, CONT R146-R149, R152, R155-R164, R239 R266-R268, R273, R275-R278, R280, CONT R287, R291, R292, R296, R297, R301, CONT R306, R308 R264, R269-R272, R274, R279, R281, CONT R282, R285, R286, R290, R298, CONT R302-R305 E56 E28, E35, E43-E45, E53-E55 E22, E26, E29, E33, E39 E5 E6 E17 E2 E21 E18, E19 E24 E9, E13 E4, E7, E10, E12, E14 E1, E3, E11, E57-E60 E15 E23 TP1-TP10 E16 R139, R143
16	16		13-23826-57	2.20	M	.25 W 5.0 % CHIP	5	
17	17		13-23827-30	20.0		.25 W 1.0 % CHIP	11	
18	18		13-23827-47	30.1		.25 W 1.0 % CHIP	101	
19	19		13-23828-15	140.0		.25 W 1.0 % CHIP	17	
20	20		13-23828-39	249.0		.25 W 1.0 % CHIP	17	
21	21		19-12731-00	DEC		8646A TRANSCEIVER, 4BIT BUS	1	
22	22		19-13788-80			26S10 TRANSCEIVER, BUS, QUAD	8	
23	23		19-20441-02			74F245 TRANSCEIVER, BI-DIREC	5	
24	24		19-21305-02			74F00 NAND GATE, QUAD, 2-IN	1	
25	25		19-21307-02			74F04 HEX INVERTER SURFACE	1	
26	26		19-21308-02			74F08 AND GATE, QUAD, 2-IN	1	
27	27		19-21310-02			74F110 AND GATE, TRIPLE, 3-IN	1	
28	28		19-21311-02			74F200 NAND GATE, DUAL, 4-IN	1	
29	29		19-21314-02			74F74 FF-D, DUAL SOIC	2	
30	30		19-21322-02			74F1610 BINARY COUNTER, SURF	1	
31	31		19-21417-02			74F521 COMPARATOR, IDENTITY,	2	
32	32		19-23578-02			74F163 BINARY COUNTER, 4-BIT	5	
33	33		21-26702-01			DC520 XMI INTERFACE CHIP (X) LATCH	7	
34	34		21-26703-01			DC531 XMI CLOCK DECODER CHIP (X) C	1	
35	35		23-387J5-00			J5-10 PAL	1	
36	36		90-09149-01			PIN, STAKNG 0.0250DX0.345LG SQUAR	10	
37	37		21-28301-01			DC7067 COMPACTED ARRAY 51K RAW G	1	
38	38		13-23827-68	49.9		.25 W 1.0 % CHIP	2	

0	1	6	1	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							XBIA MODULE			K	PL	T2012-0-08F	E



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CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
TM	C. HARTEL	S. HOLMES	INIT	11/87	A
TM	C. HARTEL	S. HOLMES	LTN01	1/88	B
TM	C. HARTEL	S. HOLMES	LTN02	9/88	C

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES

1. E5, E6, AND E7 ARE SPARE I. C. LOCATIONS.

3. UNLESS OTHERWISE SPECIFIED, USE T1999-0-0 REV D DWG SET FOR MECHANICAL ELECTRICAL AND ASSEMBLY REQUIREMENTS.

4. R9, R11, R13 & R15 REF DESIGNATIONS ARE NOT USED.

ETCH REV. B1

SIGNATURES	DATE
DRAWN C. FRANCESCO	8/30/88
CHECKED T. MCULLOUGH	8/30/88
MECH ENG D. HARTWELL	8/30/88
PROJ ENG D. HARTWELL	8/30/88
PROD W. RODRIGUEZ	8/30/88

TITLE XB1B

SCALE 2:1

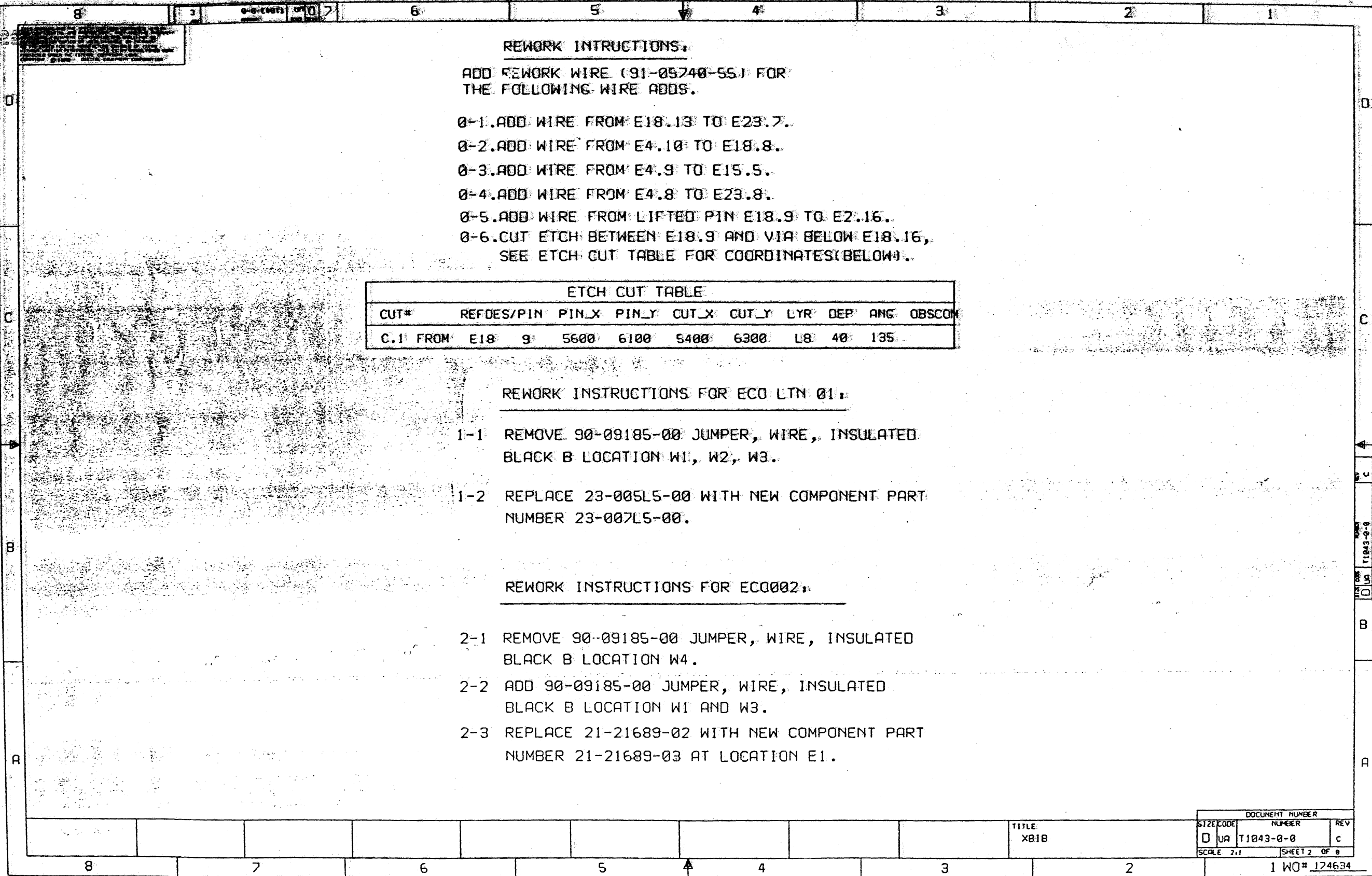
SHEET 1 OF 8

TOP DOC NO K-00-T1043-0-0

SIZE CODE UA

NUMBER T1043-0-0

REV C



REWORK INTRUCTIONS:

ADD REWORK WIRE (91-05740-55) FOR THE FOLLOWING WIRE ADDS.

- Ø-1. ADD WIRE FROM E18.13 TO E23.7.
- Ø-2. ADD WIRE FROM E4.10 TO E18.8.
- Ø-3. ADD WIRE FROM E4.9 TO E15.5.
- Ø-4. ADD WIRE FROM E4.8 TO E23.8.
- Ø-5. ADD WIRE FROM LIFTED PIN E18.9 TO E2.16.
- Ø-6. CUT ETCH BETWEEN E18.9 AND VIA BELOW E18.16, SEE ETCH CUT TABLE FOR COORDINATES (BELOW).

ETCH CUT TABLE									
CUT#	REFDES/PIN	PIN_X	PIN_Y	CUT_X	CUT_Y	LYR	DEP	ANG	OBSCOM
C.1	FROM E18.9	5600	6100	5400	6300	L8	40	135	

REWORK INSTRUCTIONS FOR ECO LTN Ø1:

- 1-1 REMOVE 90-09185-00 JUMPER, WIRE, INSULATED BLACK B LOCATION W1, W2, W3.
- 1-2 REPLACE 23-005L5-00 WITH NEW COMPONENT PART NUMBER 23-007L5-00.

REWORK INSTRUCTIONS FOR ECOØØ2:

- 2-1 REMOVE 90-09185-00 JUMPER, WIRE, INSULATED BLACK B LOCATION W4.
- 2-2 ADD 90-09185-00 JUMPER, WIRE, INSULATED BLACK B LOCATION W1 AND W3.
- 2-3 REPLACE 21-21689-02 WITH NEW COMPONENT PART NUMBER 21-21689-03 AT LOCATION E1.

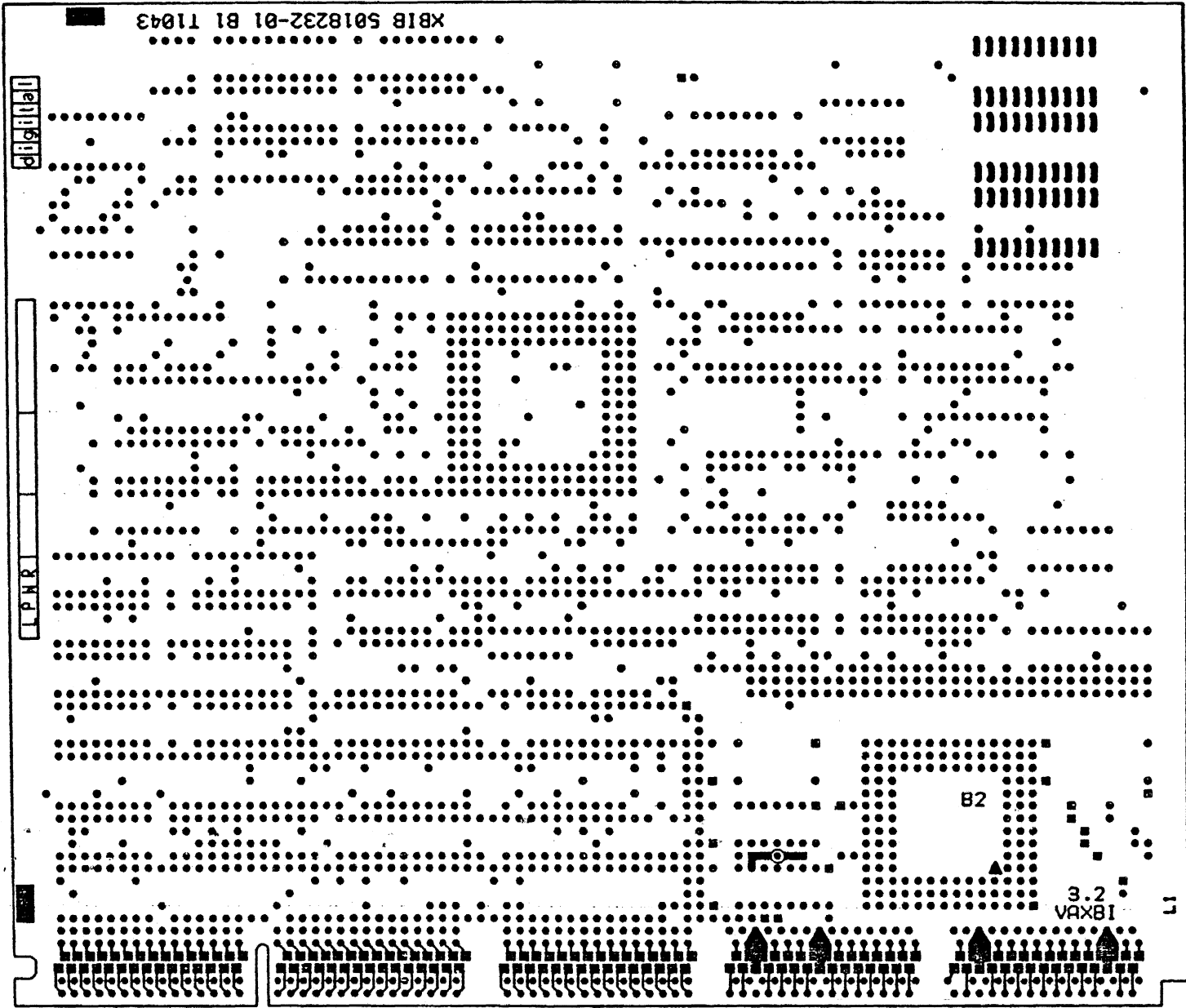
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DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
Ø	UA T1043-0-0	C
SCALE 2:1		SHEET 2 OF 8

1 WO# 124634

8 7 6 5 4 3 2 1

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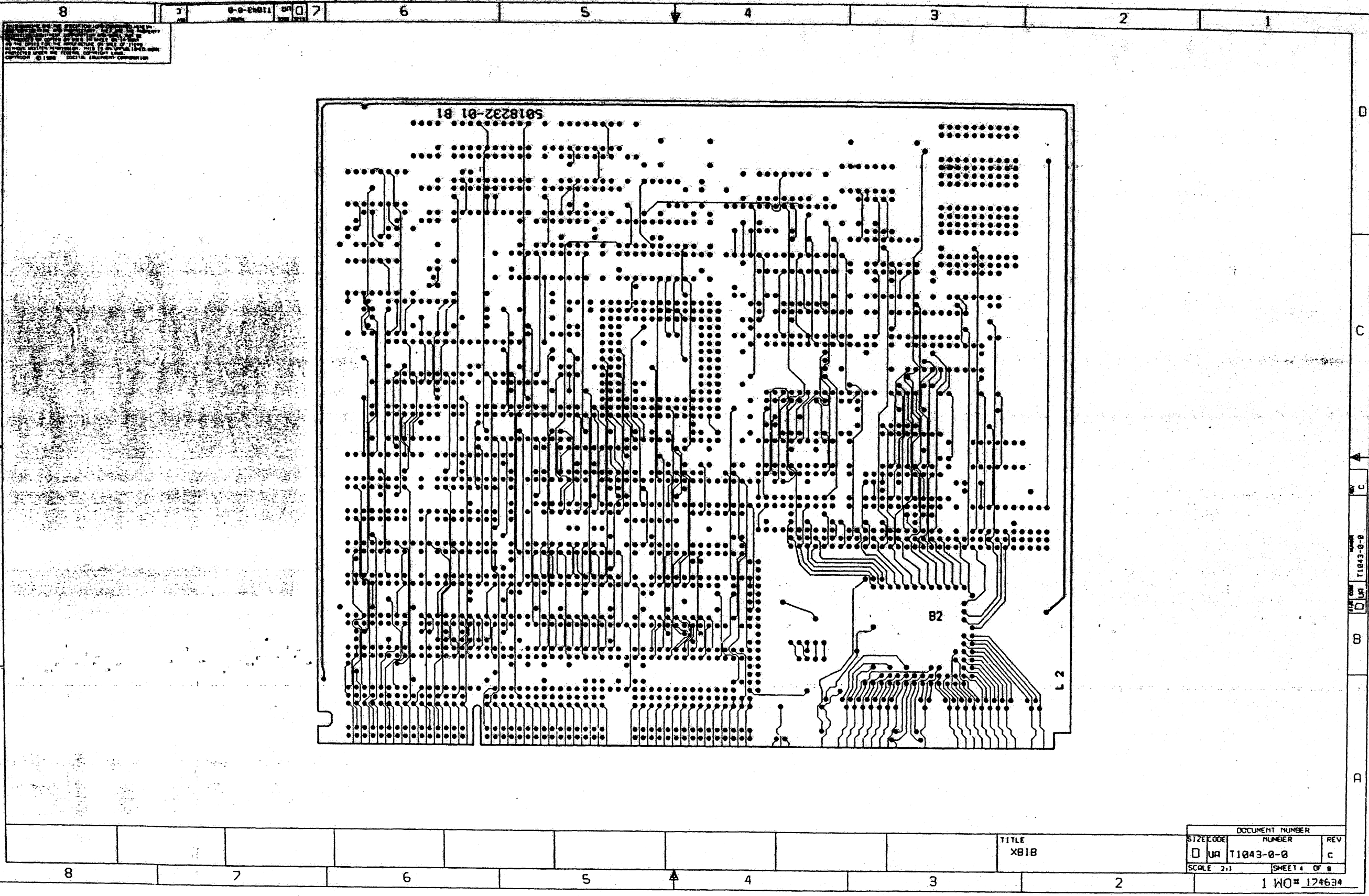


D
C
B
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TITLE		DOCUMENT NUMBER	
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		UA	11043-0-0
SCALE 2:1		REV	
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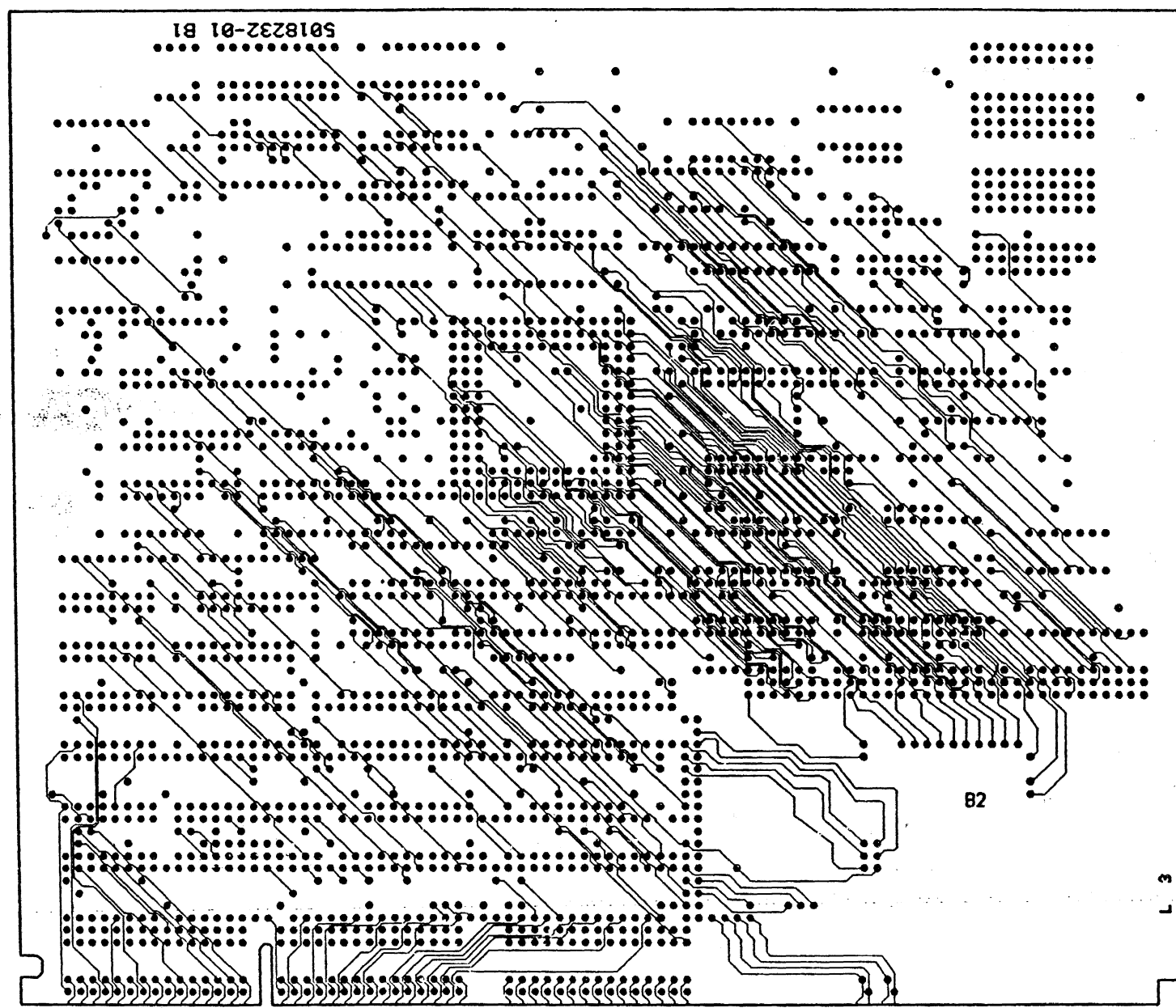
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TITLE
XB1B

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
UA	T1043-0-0	C
SCALE 2:1		SHEET 4 OF 8

1 WO# 124634

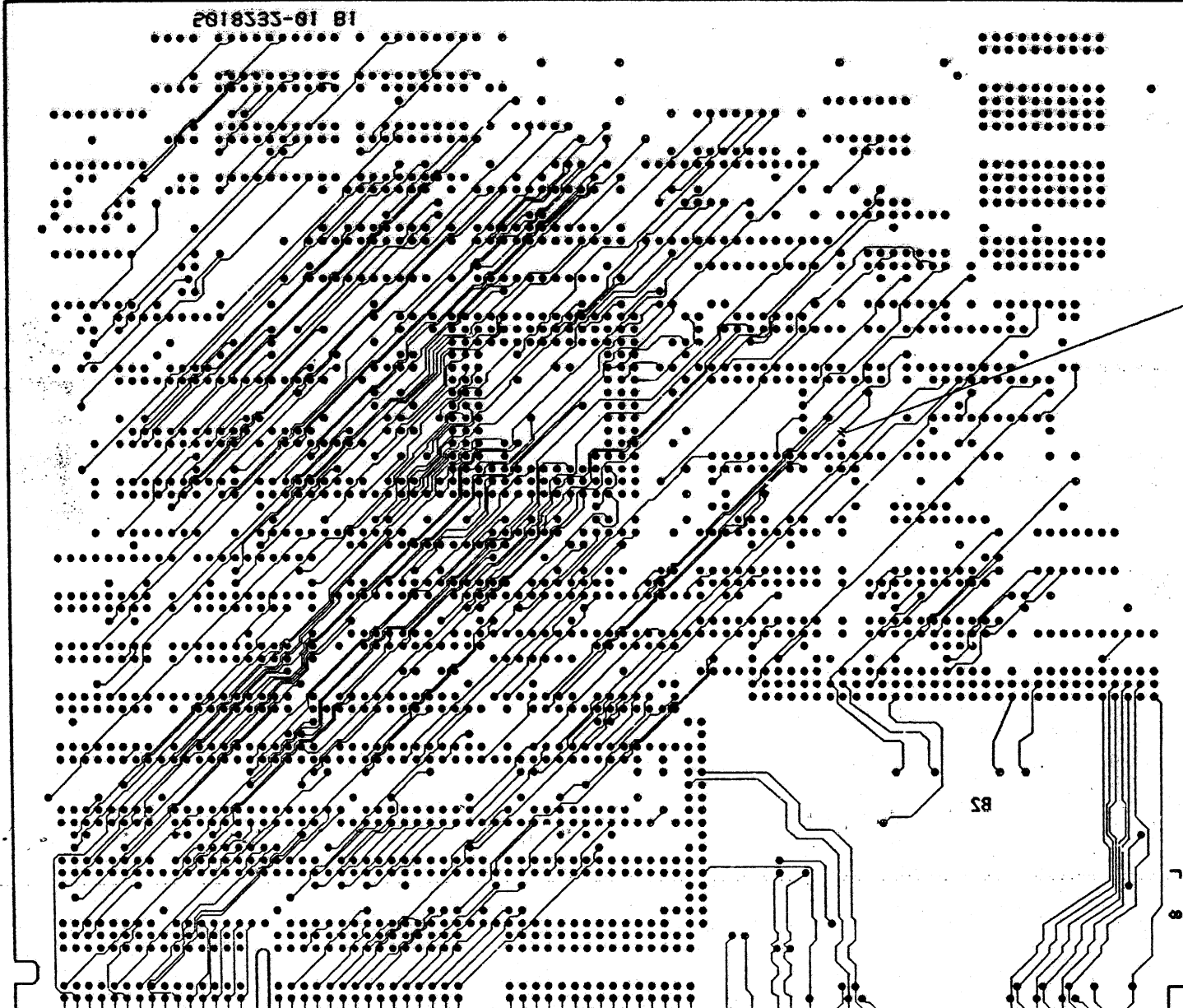
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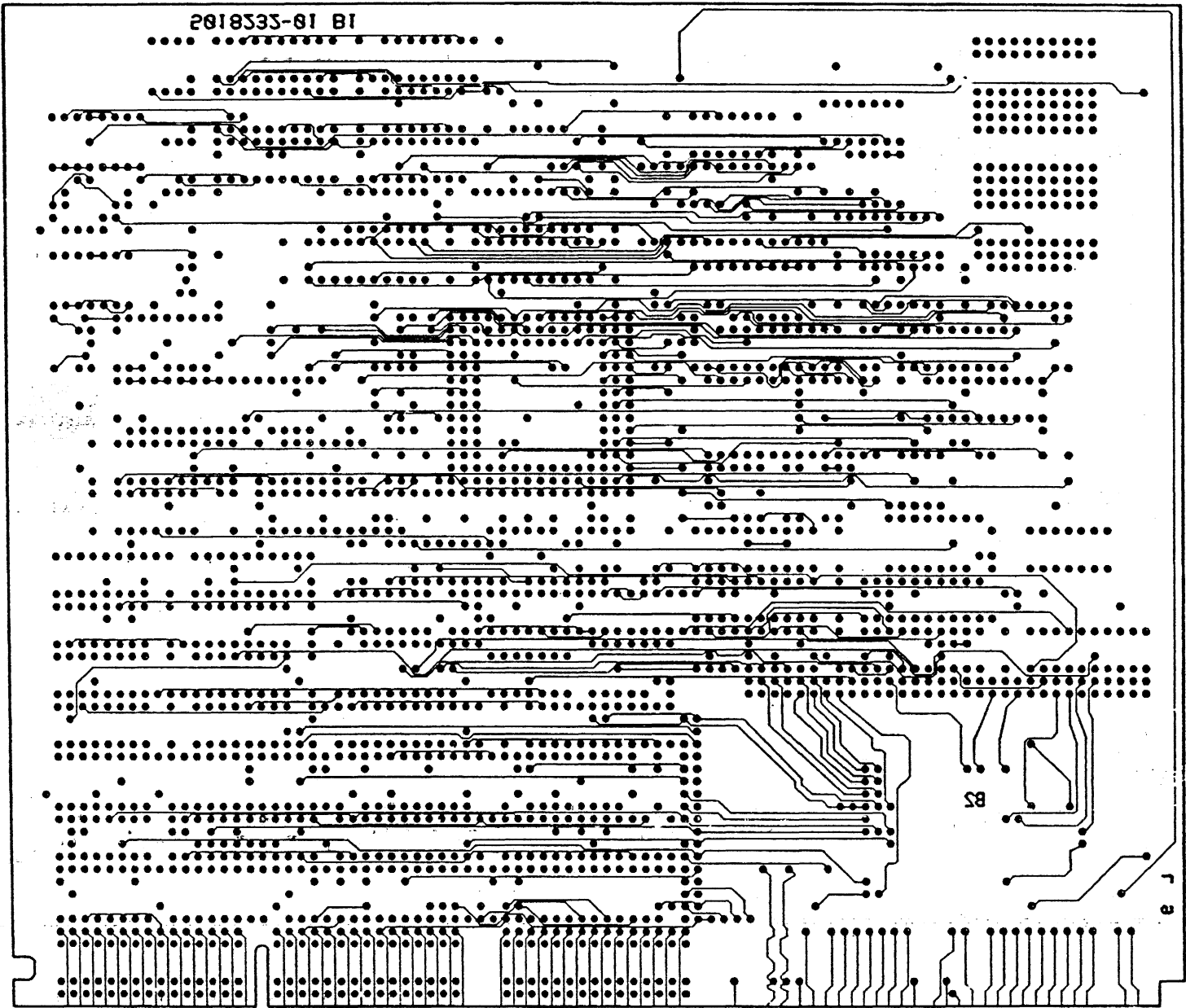
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						SHEET 6 OF 8	
						WO# 174634	

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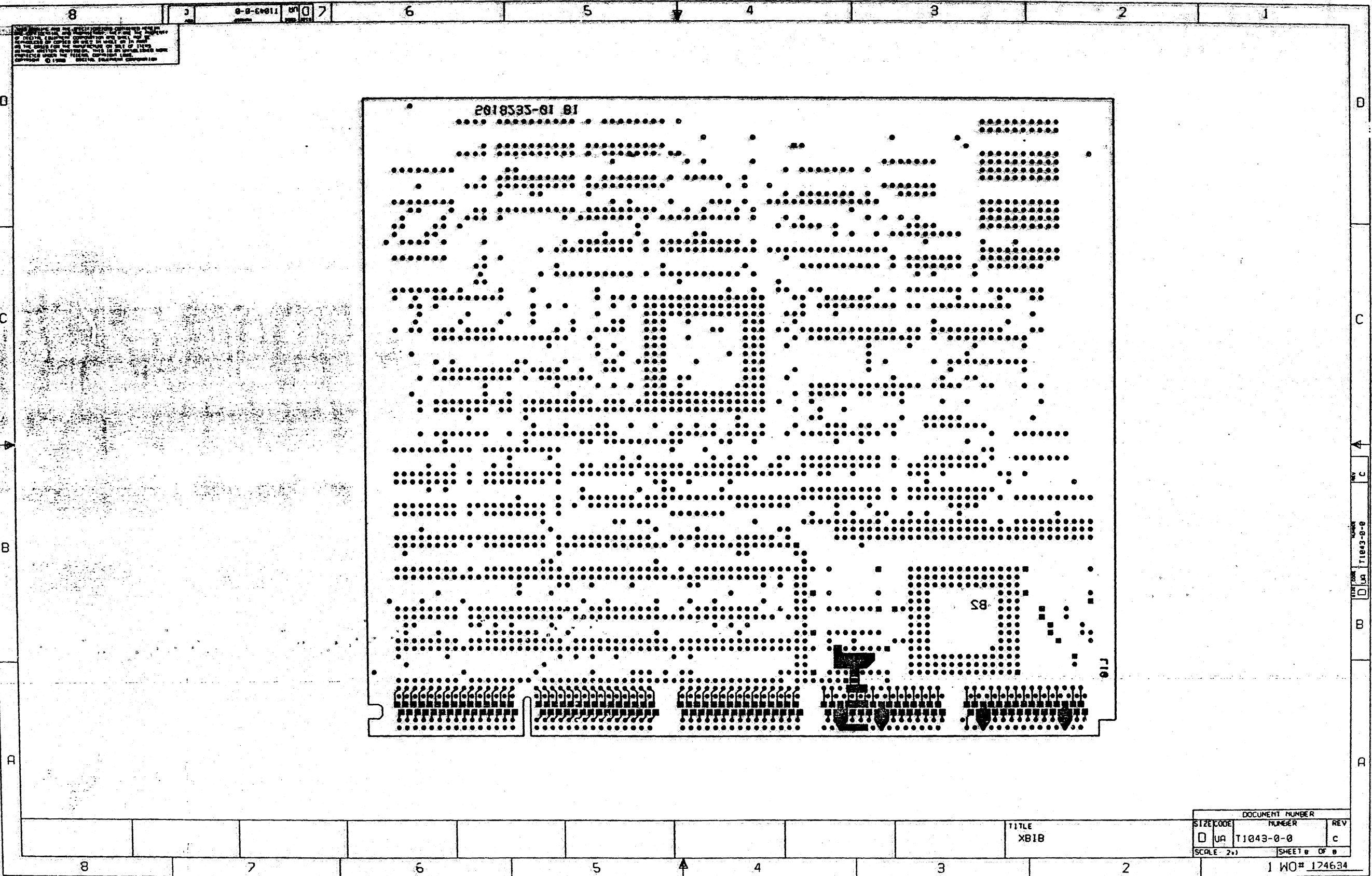


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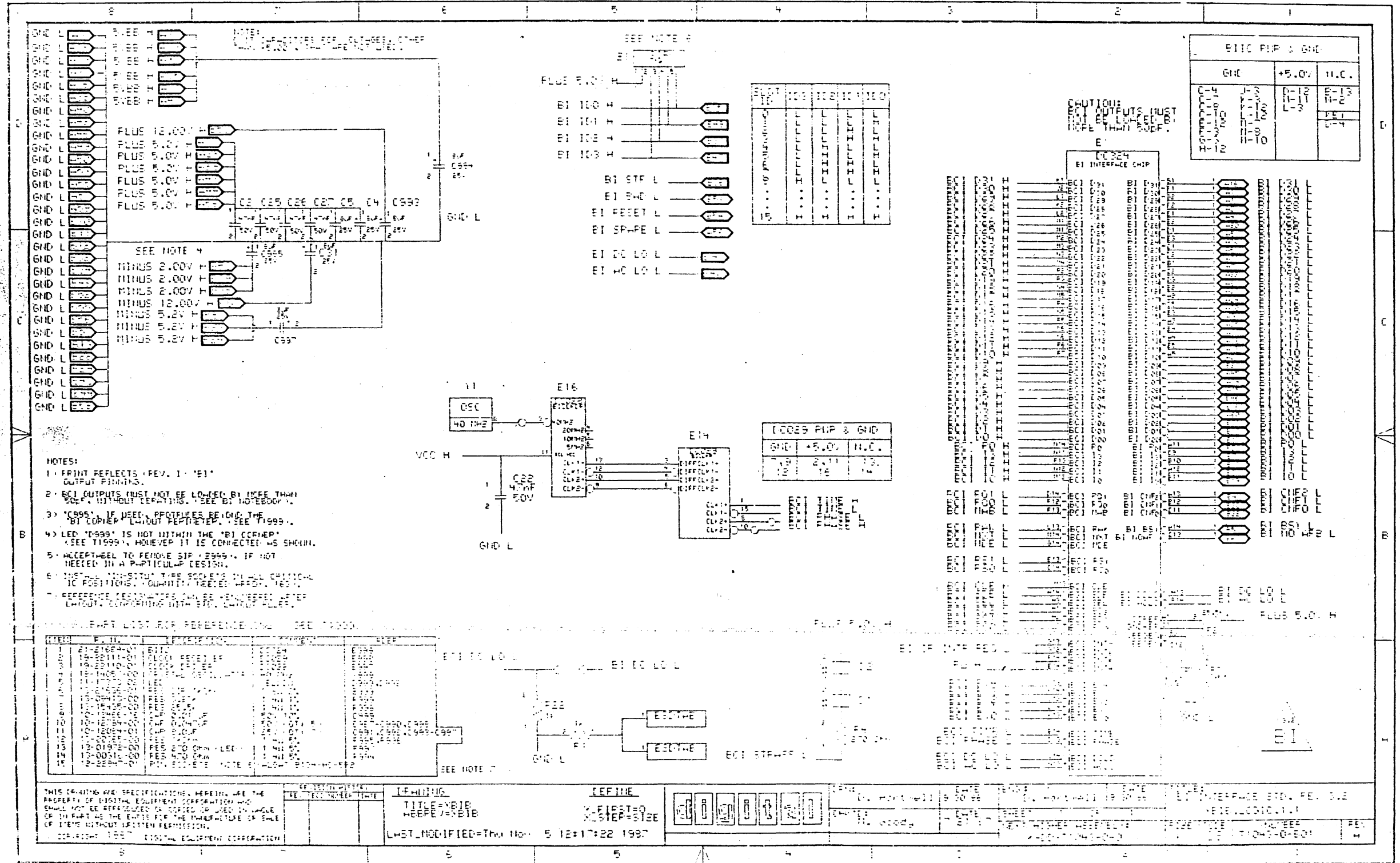
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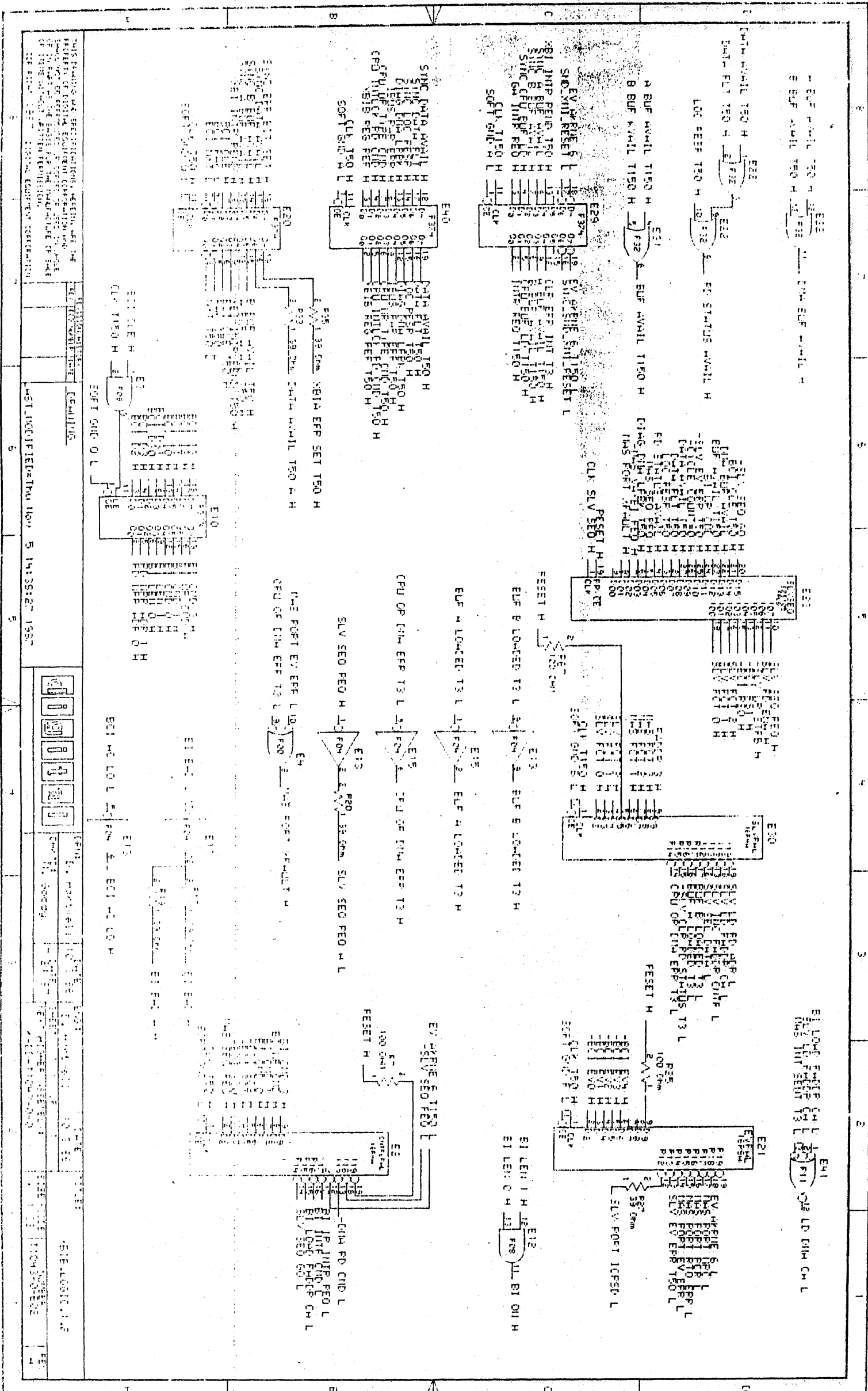
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1 WO# 124634



- NOTES:
- 1) PRINT REFLECTS REV. 1 "E1" OUTPUT PINNING.
 - 2) BCI OUTPUTS MUST NOT BE LOADED BY MORE THAN 500 μ A (WITHOUT DEPARTING). SEE B7 NOTEBOOK.
 - 3) "C999" IF USED, PROTECTS AGAINST THE "BI CORNER" LOADOUT PERTINENT. SEE "1999".
 - 4) LED "C999" IS NOT WITHIN THE "BI CORNER" (SEE "1999"), HOWEVER IT IS CONNECTED AS SHOWN.
 - 5) ACCEPTABLE TO REMOVE S/P "C999" IF NOT NEEDED IN A PARTICULAR TEST.
 - 6) INSTALLED WITHIN THE SCHEMATIC IN ALL CRITICAL IC POSITIONS. QUANTITY TYPED AS P/N, 16211.
 - 7) REFERENCE ASSIGNMENTS CAN BE REENGINEERED AFTER CONSULTATION WITH ESD, LAYOUT GROUP.
- ALL PART LIST FOR REFERENCE (SEE PAGE 1)

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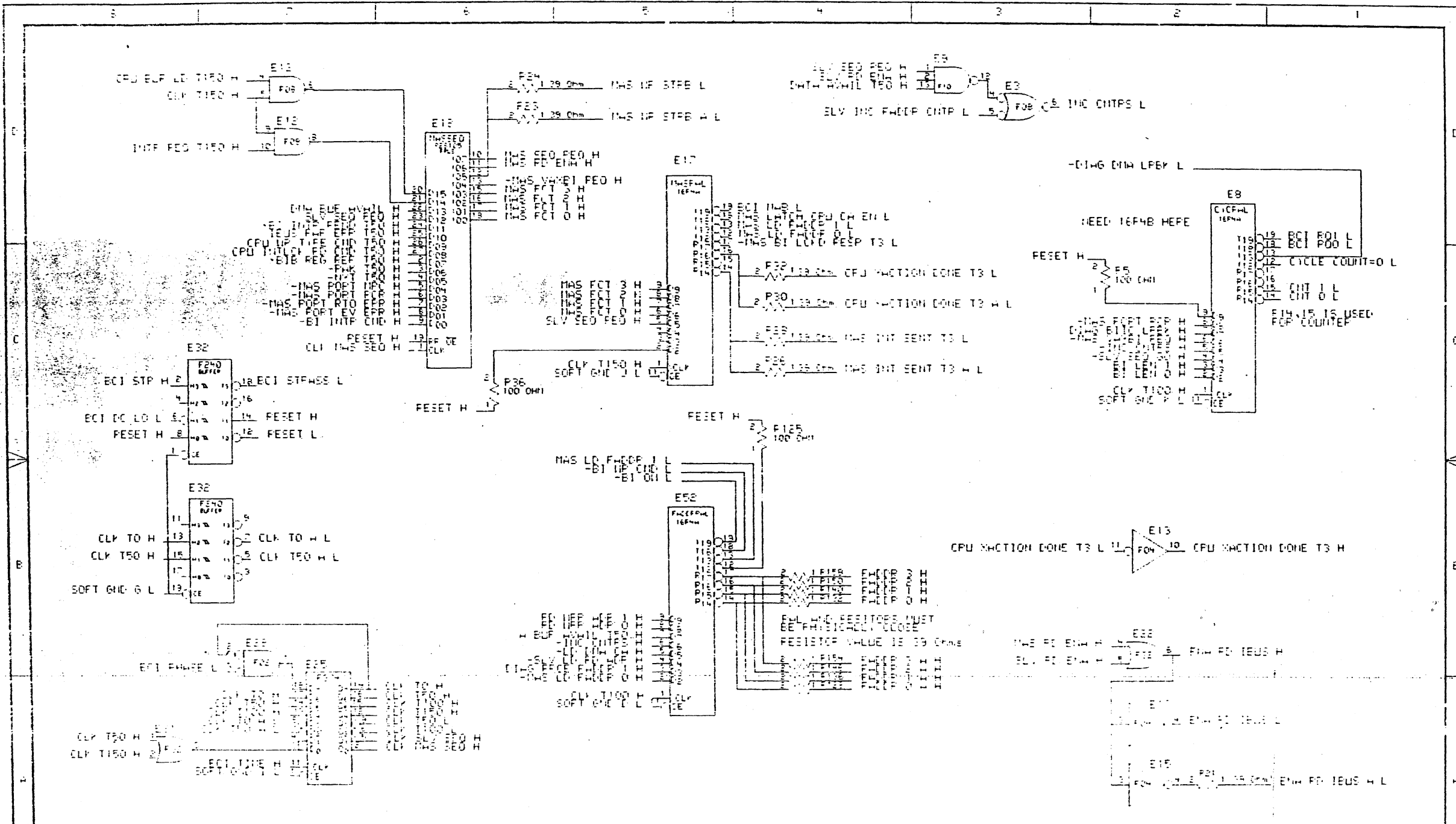


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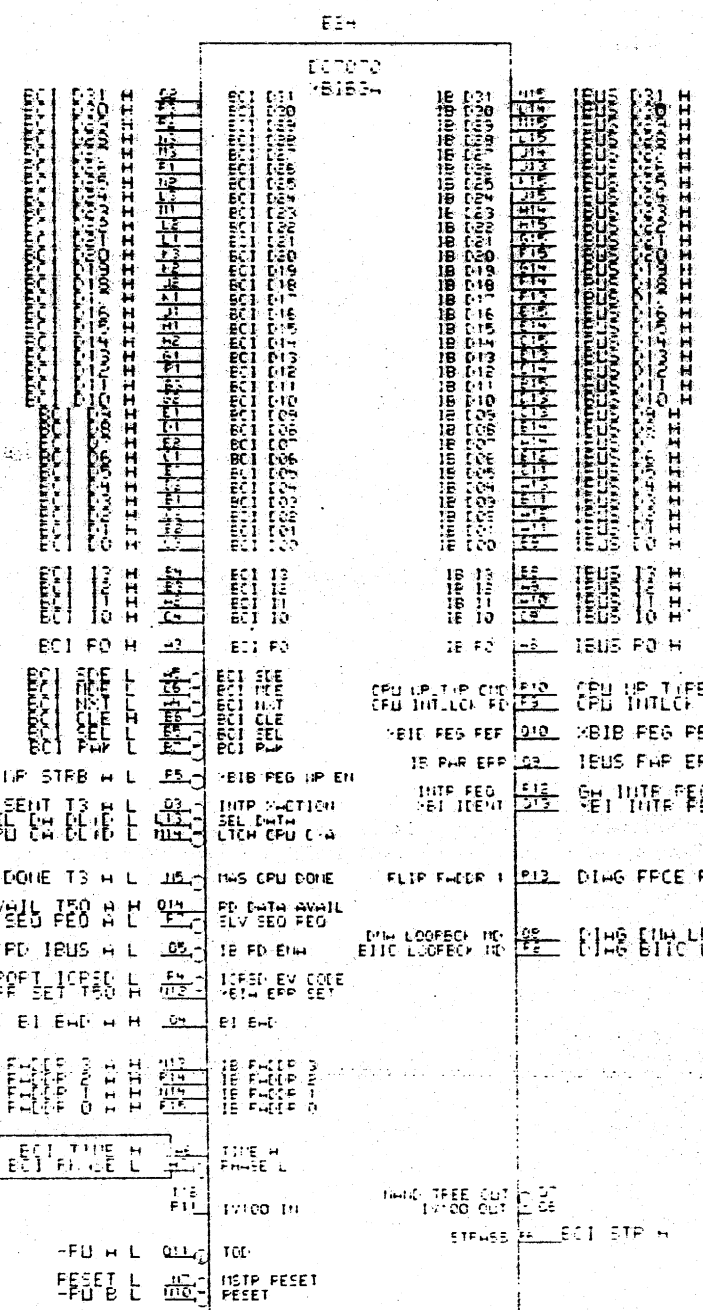
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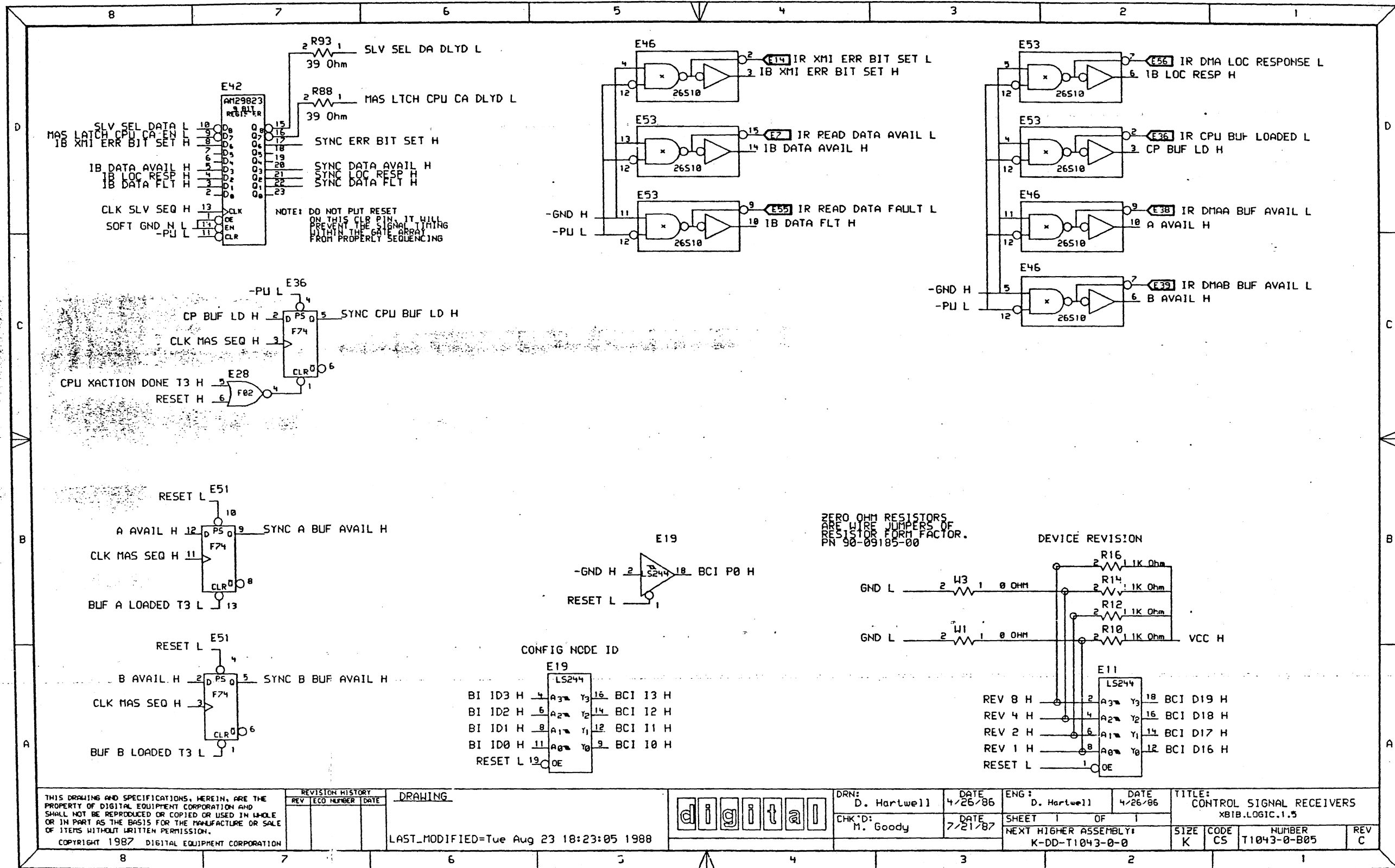
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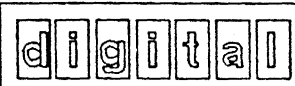


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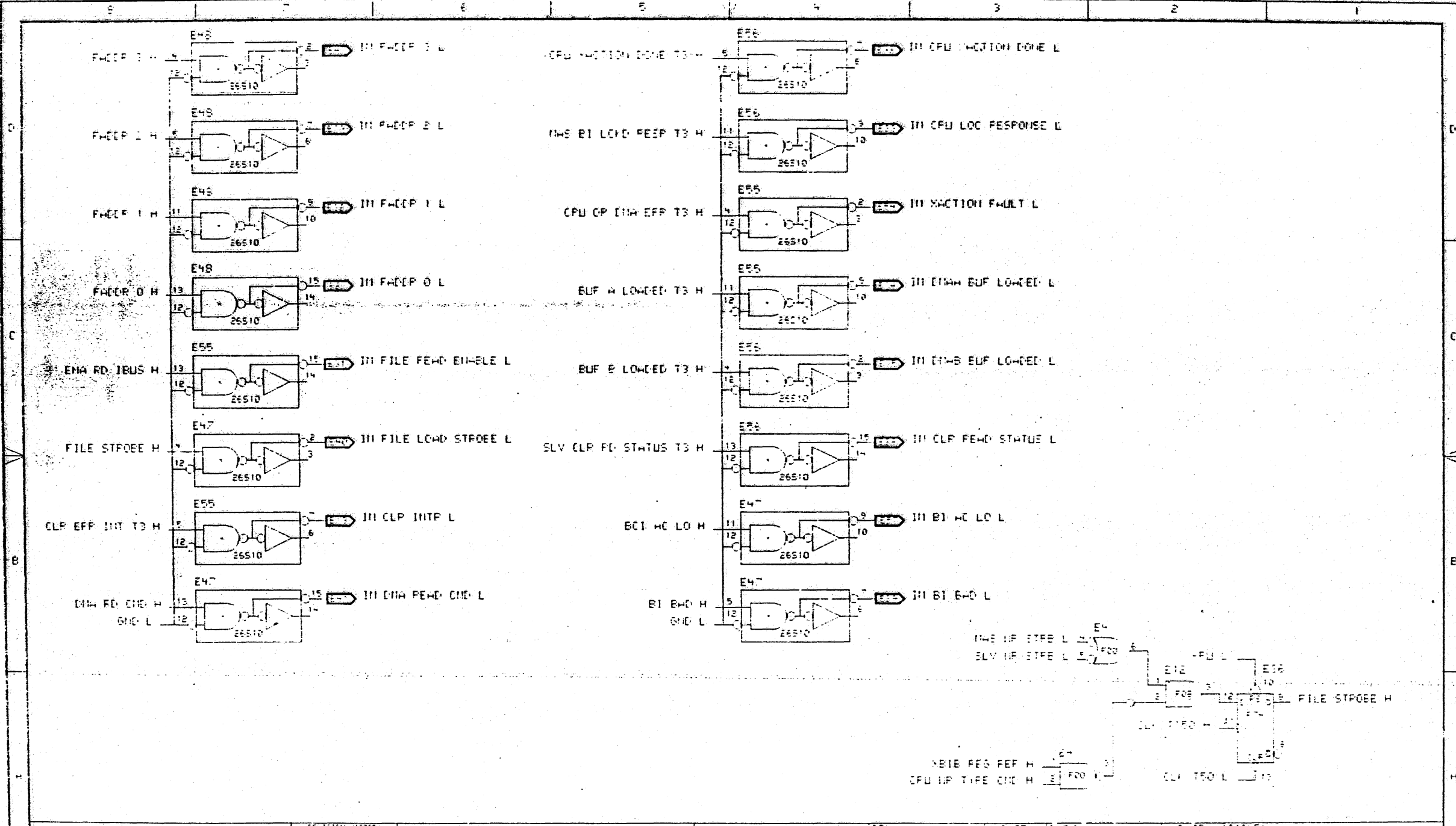


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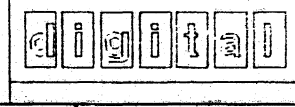
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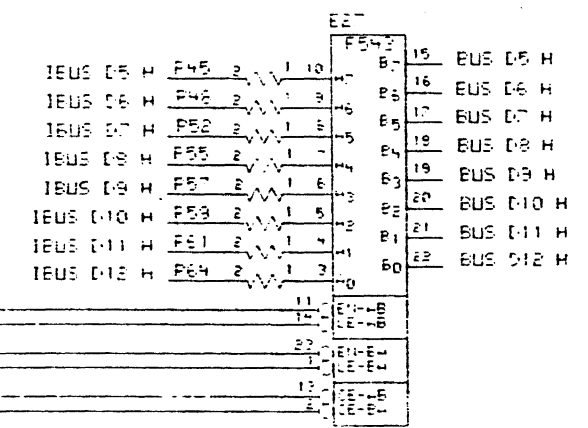
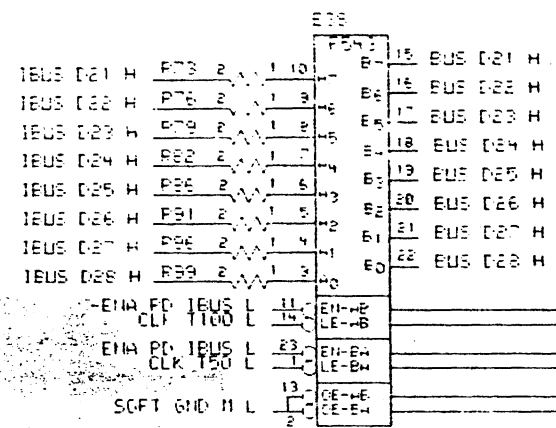
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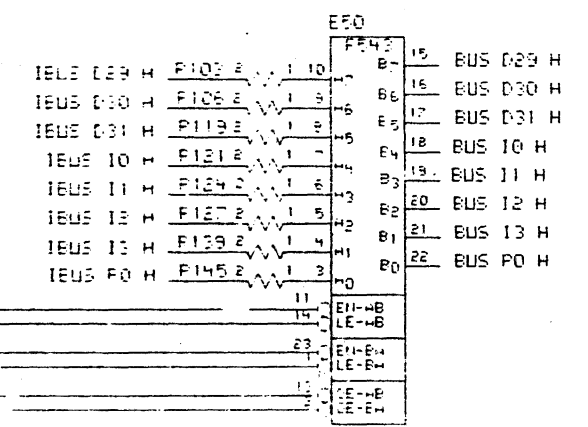
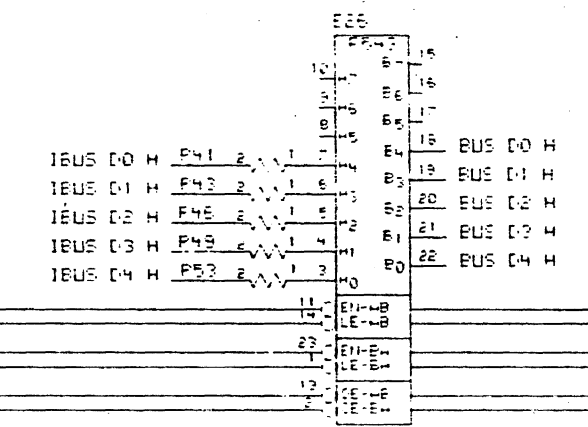
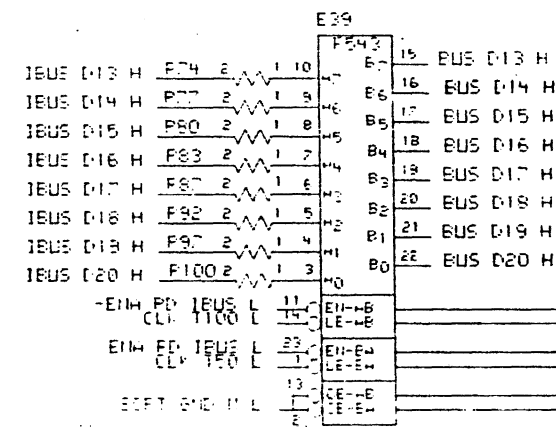
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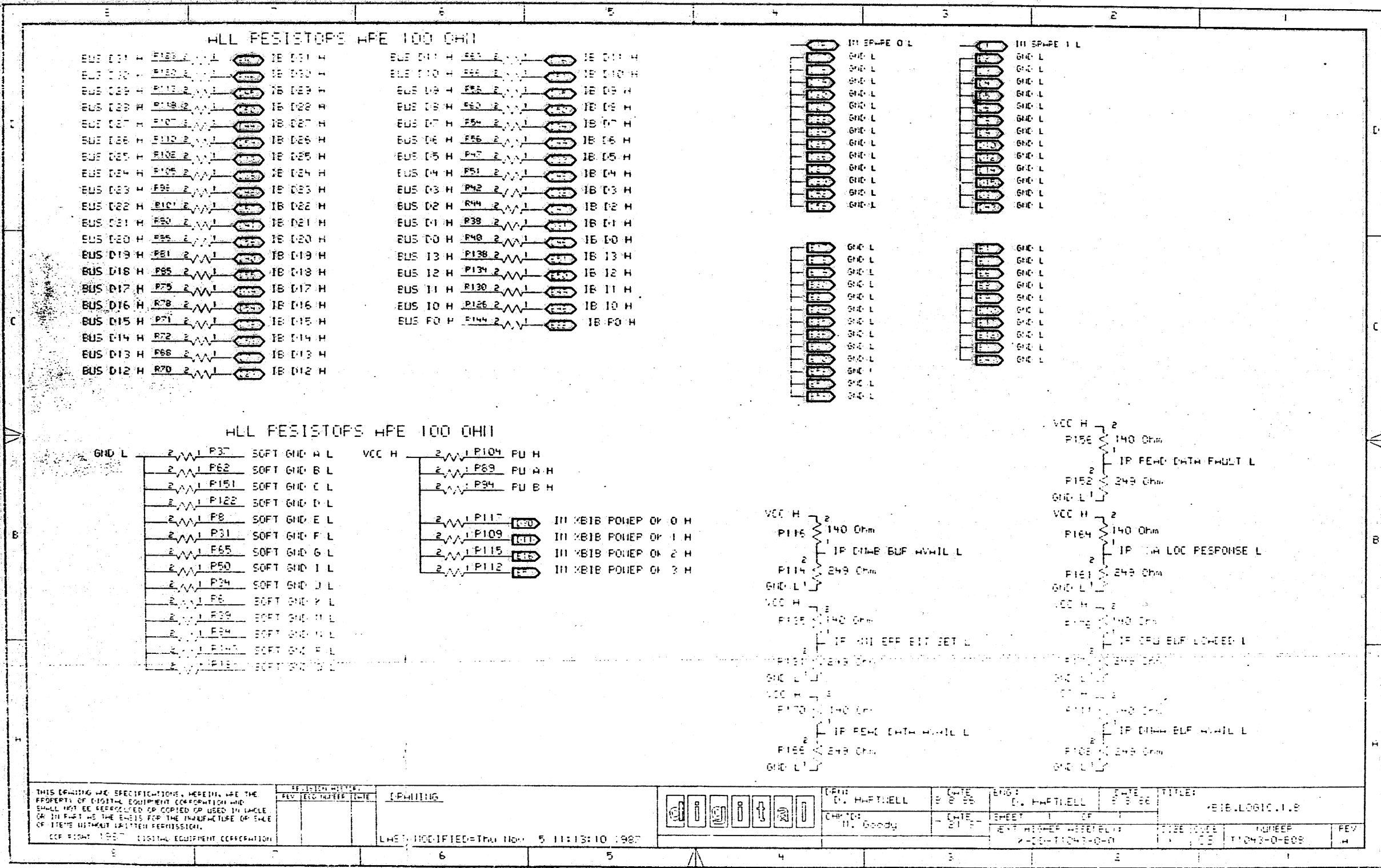


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CHECKER W. Goody	DATE 6 3 87	SHEET 1 OF 1	TEST HIGHER ASSEMBLY #100-71043-0-0	TIME TO COMPLETE 1.5



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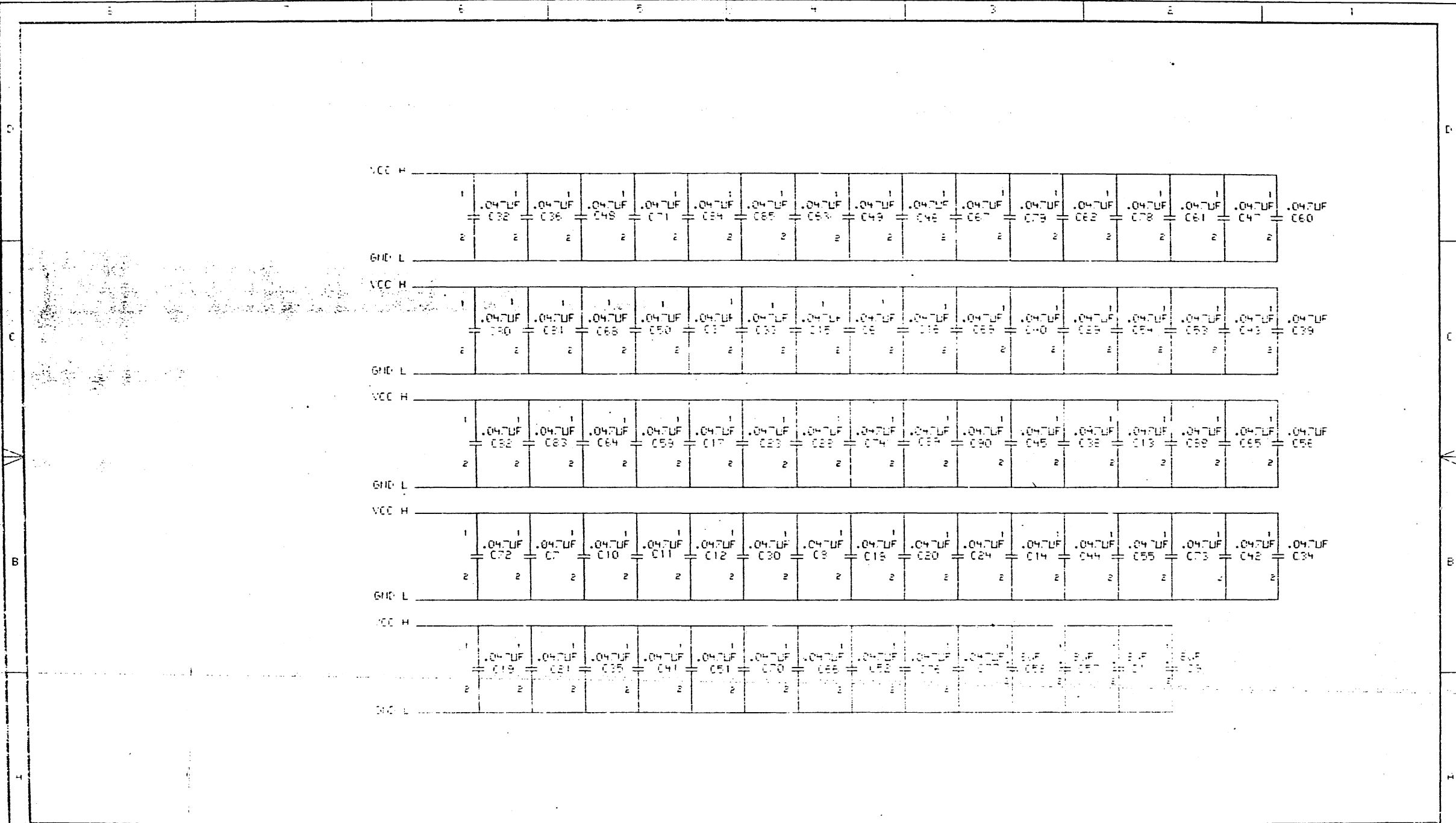
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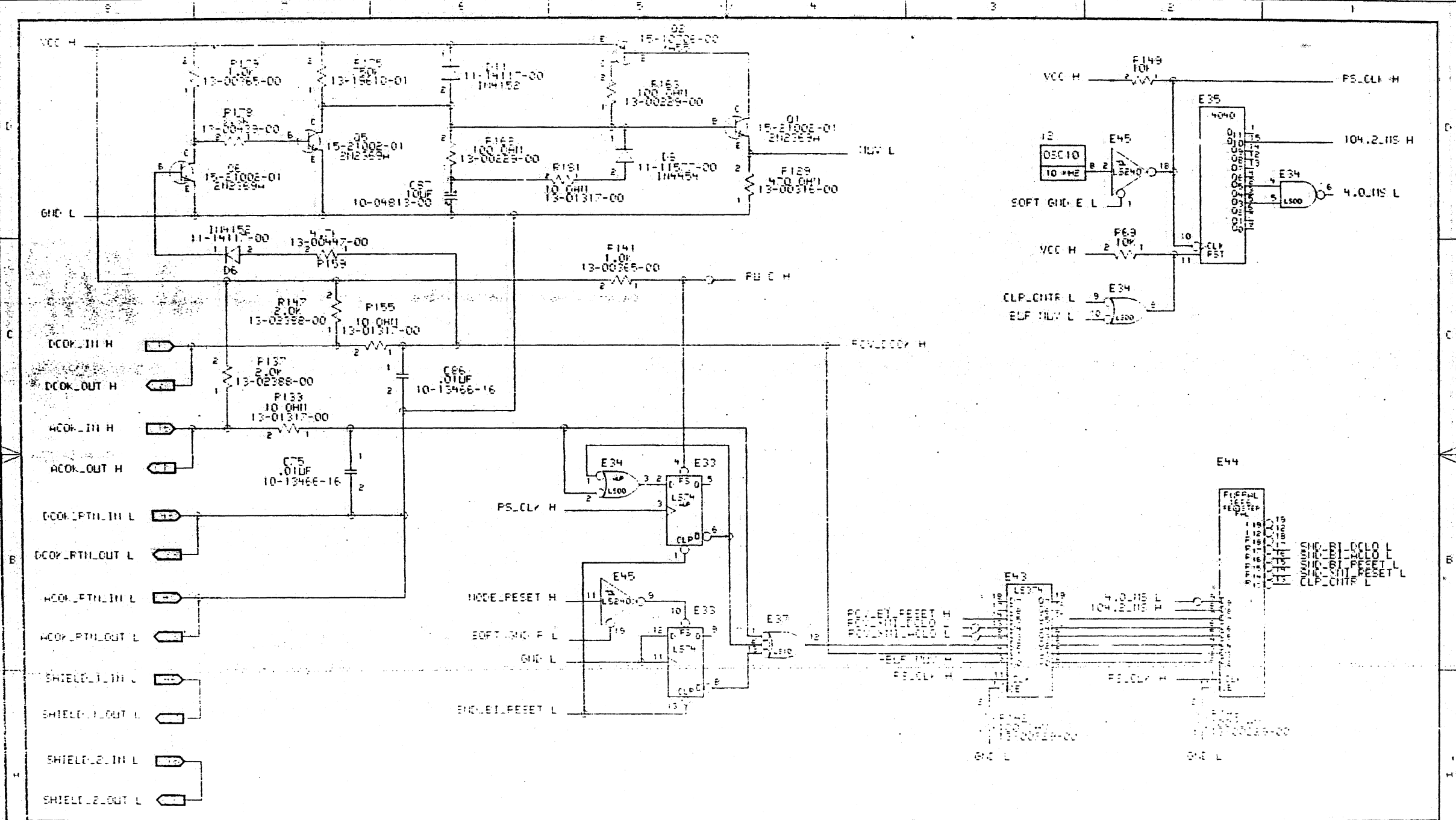
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DIGITAL

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CHKD BY M. Goody	DATE 8 21 66	EMERIT D. HARTWELL	DATE 8 21 66	TYPE NO 11043-0-B09
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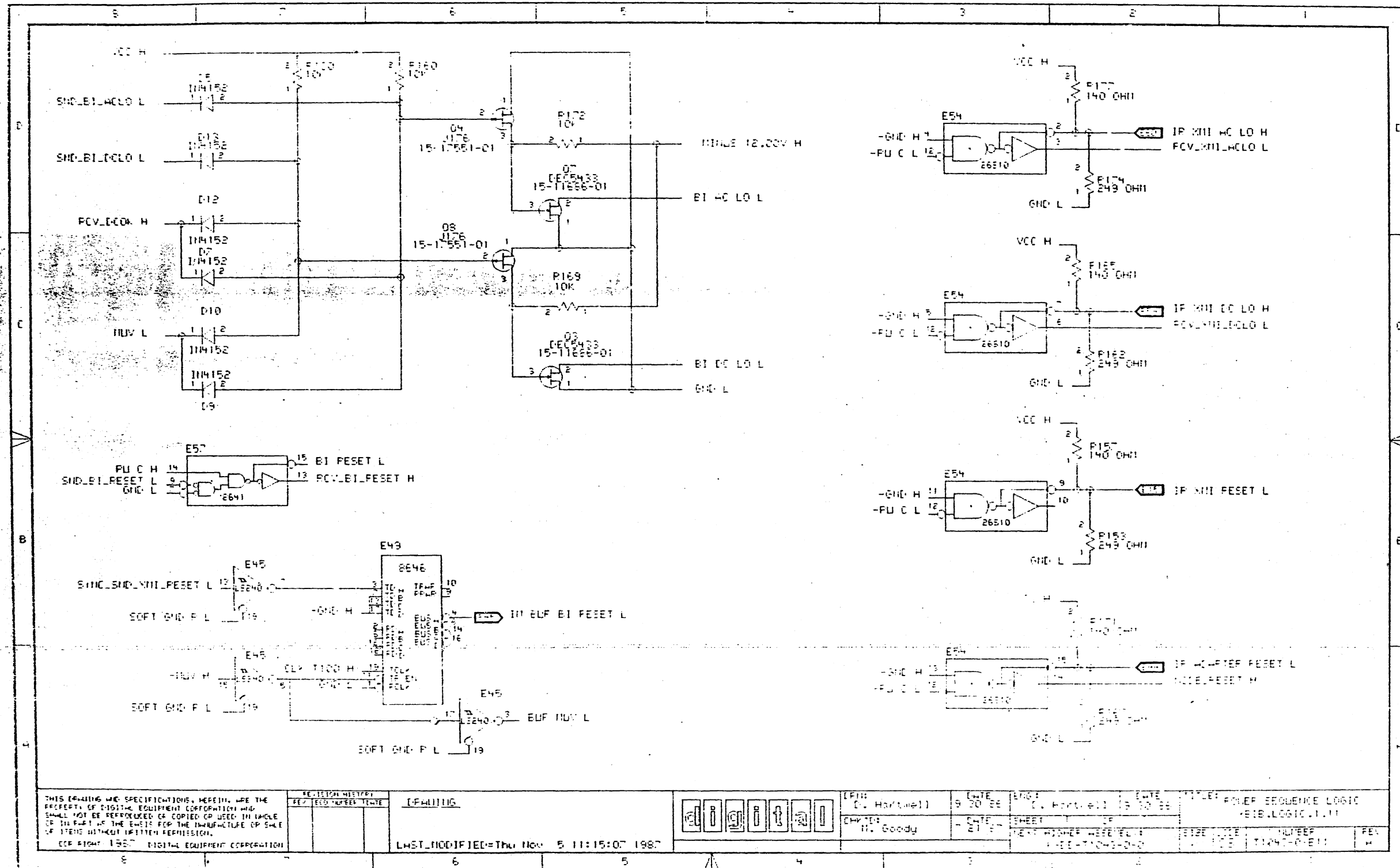


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				W. Goody				11043-0-010
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LAST MODIFIED=Thu Nov 5 11:14:32 1987



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REVISION HISTORY
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DIGITAL

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 BY: H. Goody
 SHEET 1 OF 1
 NEXT HIGHER REVISION: 11-23-88
 REVISIONS: 0-0

DATE: 10 30 88
 BY: G. Fortwell
 TITLE: POWER SEQUENCE LOGIC
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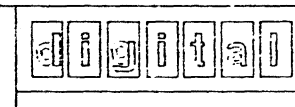
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SHIELD_2.IN L	1048			
SHIELD_2.OUT L	1048			
SLV CLR RD STATUS T3 H	0202	05E5		
SLV EV ERR T50 L	0202	0205		
SLV FCT 0 H	0204	0205		
SLV FCT 1 H	0204	0205		
SLV FCT 2 H	0204	0205		
SLV INC FADDP ENTP L	0203	0303		
SLV LD FADDP CH L	0202	0203		
SLV LD PD HOP L	0203	03E5		
SLV POFT TOPSD L	0202	04E5		
SLV PD ENH H	0205	03E2	0303	
SLV SEL DA DLIO L	04E5	0506		
SLV SEL DATA L	0203	0507		
SLV SED GO L	02E2	0205	03C2	
SLV SED FE0 A L	02E4	04E5		
SLV SED FE0 H	02E2	02E5	0205	03C5
	0306	03E6		
SLV NR STFB L	0205	06E2		
SHD_BI.ACLO L	10B1	1108		
SHD_BI.DCLO L	10B1	1108		
SHD_BI.PESET L	1045	10B1	11B8	
SHD_MHI.PESET L	0205	10B1		
SOFT GND H L	02E8	0208	05E7	
SOFT GND E L	0204	05E7		
SOFT GND C L	0242	05E7		
SOFT GND D L	0345	05E7		
SOFT GND E L	02E7			
SOFT GND F L	0202	05E7		
SOFT GND G L	02E8	05E7		

SIGNAL NAME	LOC	ADDRESS	MAP	SOURCES
SOFT GND I L	0347	05E7		
SOFT GND J L	0305	05E7		
SOFT GND K L	03C2	05E7		
SOFT GND N L	07E7	0707	05E7	
SOFT GND H L	0507	05E7		
SOFT GND P L	0247	10B5	1146	1148
SOFT GND O L	0246	0246	0247	
STALL CNT-ENUS H	0205	0505		
SN0 A BUF H/AIL H	02E8	0208	05E7	
SN0 E BUF H/AIL H	02E8	0208	0547	
SN0 CPU BUF LD H	0208	0507		
SN0 DATA H/AIL H	02E8	02E8	0507	
SN0 DATA FLT H	02E8	0507		
SN0 EFF EST SET H	02E8	0507		
SN0 LOC FE0 H	02E8	0507		
SN0_MHI.MHI.PESET L	0207	11E7		
YB1 INTR FE0 H	02E8	04E3		
YB1 INTR FE0 T50 H	02E7	0303	0305	
YB1A FE0 SET T50 H	02E6	04E5		
YB1B FE0 FE0 H	02E8	04E3	0643	
YB1B FE0 FE0 T50 H	02E7	0306		

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REVISION HISTORY
REV. TECH. NUMBER DATE

CHANGING
LWST UNOIFIED-TRAIL NO. 5 11:17:29 1987




DESIGNER: M. Goody
CHECKER: V. Tricolo

DATE: 03 05 87
DATE: 03 05 87

ENGINEER: D. Hartnell
DRAWN BY: D. Hartnell
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: 2-10-11043-0-0
TITLE: YB1B LOGIC 1,15
Signal Cross Reference

REV. NO. 1
DATE 11-04-86
BY

SIGNAL NAME	LOC#	WFFONS	TRAY	SOURCES	SIGNAL NAME	LOC#	WFFONS	TRAY	SOURCES	SIGNAL NAME	LOC#	WFFONS	TRAY	SOURCES	
IBUS D13 H	0403	0707			IN CLR INTPL L	06B7				NWS FCT 3 H	0204	0305	0306		
IBUS D14 H	0403	0707			IN CLR READ STATUS L	06C3				NWS INT SENT T3 A L	0304	04B5			
IBUS D15 H	0403	07B7			IN CPU LOC RESPONSE L	06D3				NWS INT SENT T3 L	0202	0304			
IBUS D16 H	0403	07B7			IN CPU YACTION DONE L	06E3				NWS LATCH CPU CH EN L	0304	0307			
IBUS D17 H	0403	07B7			IN DMA FEWD CND L	06B7				NWS LD FADDR 0 L	03A5	03D4			
IBUS D18 H	0403	07B7			IN DMA BUF LOADED L	06C3				NWS LD FADDR 1 L	03B5	03D4			
IBUS D19 H	0403	07B7			IN DMA BUF LOADED L	06C3				NWS LTCH CPU CH DLTD L	04B5	05D6			
IBUS I2 H	0403	07B4			IN FADDR 0 L	06C7				NWS PORT EV EFF L	02B5	0202	0306		
IBUS I20 H	0403	07B7			IN FADDR 1 L	06D7				NWS PORT NPC L	0202	0306			
IBUS I21 H	0403	07D7			IN FADDR 2 L	06E7				NWS PORT PCP L	0202	0302	0306		
IBUS I22 H	0403	07D7			IN FADDR 3 L	06E7				NWS PORT PTD EFF L	0202	0306			
IBUS I23 H	0403	07D7			IN FILE LOAD STROBE L	06B7				NWS PORT XFAULT H	02E4	0205			
IBUS I24 H	0403	07D7			IN FILE READ ENABLE L	06C7				NWS RD ENA H	03E2	0306			
IBUS I25 H	0403	07D7			IN YACTION FAULT L	06E3				NWS SEQ FEED H	02A2	0205	0306		
IBUS I26 H	0403	07D7			IN XBIB POWER OK 0 H	06B5				NWS V4XBI FEED L	0205	0302	0306		
IBUS I27 H	0403	07D7			IN XBIB POWER OK 1 H	06B5				NWS WP STFB A L	0305	04E5			
IBUS I28 H	0403	07D7			IN XBIB POWER OK 2 H	06B5				NWS WP STFB L	0305	06E2			
IBUS I29 H	0403	07C2			IN XBIB POWER OK 3 H	06B5				NINUS 12.00V H	11D5				
IBUS I3 H	0403	07B4			INC CNTRS L	03B5	0302	03D3		NUM L	1004	11A7	11C5		
IBUS I30 H	0403	07C2			INTP FEED T150 H	02C7	03D7			NODE FESET H	10B5	11A2			
IBUS I31 H	0403	07E2			IR ADAPTER RESET L	11A2				INT T50 L	02A7	0306			
IBUS I4 H	0403	07B4			IR CPU BUF LOADED L	05D2	06A2			PLUS 5.0V H	01B1	01D5			
IBUS I5 H	0403	07D4			IR CPU LOC RESPONSE L	05D2	06B2			PS_CLI H	10A2	10B3	10E5	10D1	
IBUS I6 H	0403	07D4			IR DMA BUF AVAIL L	05D2	06A2			PU A H	04A5	06E6			
IBUS I7 H	0403	07D4			IR DMA BUF AVAIL L	05D2	06E4			PU B H	04A5	06E6			
IBUS I8 H	0403	07D4			IR READ DATA AVAIL L	05D4	06A4			PU C H	10C5	11A3	11B3	11E8	11C3
IBUS I9 H	0403	07D4			IR READ DATA FAULT L	05D4	06B2			PU H	01A3	05C3	06B5		
IBUS I10 H	0403	07B2			IP XMI AC LO H	11D2				RAI T50 L	02A7	0773			
IBUS I11 H	0403	07B2			IP XMI DC LO H	11C2				RCV BI FESET H	10E3	11E7			
IBUS I12 H	0403	07E2			IP XMI EPP BIT SET L	05C4	06A4			RCV LCCA H	10C4	11C8			
IBUS I13 H	0403	07E2			IP XMI FESET L	11E2				RCV XMI LACLO L	10E3	11C2			
IBUS I14 H	0403	07E2			LD DMA CH L	0202	03B5			RCV XMI LDCLO L	10E3	11C2			
IBUS I15 H	0403	07E2			LOC RESP T50 H	02E7	06D5	02D7		RD STATUS HAVIL H	0205	0207			
IBUS I16 H	0403	07E2			NWS B1 LOHD RESP T3 H	03C4	06D5			RD WPP ACB 0 H	02A5	03E5			
IBUS I17 H	0403	07E2			NWS FCT 0 H	0205	03D6			RD WPP ACB 1 H	02A5	03E5			
IBUS I18 H	0403	07E2			NWS FCT 1 H	0204	0305	07D6		FESET H	02E4	0205	0302	0304	0306
IBUS I19 H	0403	07E2			NWS FCT 2 H	0204	0305	03D6							

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SIGNAL NAME	LOCS	APPONS	MAPL	SOURCES	SIGNAL NAME	LOCS	APPONS	MAPL	SOURCES	SIGNAL NAME	LOCS	APPONS	MAPL	SOURCES
BUS E6 H	07D3	08D6			DATA AVAIL T50 H H	02E5	04B5			IB D17 H				08C7
BUS E6 H	07D3	08D6			DATA AVAIL T50 H	02E7	02E5	02D8	03D3	IB D18 H				08C7
BUS E7 H	07D3	08D6			DATA FLT T50 H	02E7	02E5	03D9		IB D19 H				08C7
BUS E8 H	07D3	08D6			DCOOLIN H		10C8			IB D2 H				08D5
BUS E9 H	07D3	08D6			DCOOLOUT H		10C8			IB D20 H				08C7
BUS 10 H	07B1	08C6			DCOOLPTLIN L		10E9			IB D21 H				08C7
BUS 11 H	07B1	08C6			DCOOLPTLOUT L		10E9			IB D22 H				08C7
BUS 12 H	07B1	08C6			DIAG BIIC LFEY H	03C2	04B3			IB D23 H				08C7
BUS 13 H	07B1	08C6			DIAG DMA LFEY H	02E9	03E2	04B3		IB D24 H				08C7
BUS P0 H	07B1	08C6			DIAG DMA LFEY T50 H	02E7	02C5	03C6		IB D25 H				08C7
CLK MAS SE0 H	03A6	03C6	05A7	05B7	05C7					IB D26 H				05D7
CLK SLV SE0 H	02C5	03A6	05D7							IB D27 H				08C7
CLK TO A L	03A7	03B7								IB D28 H				08C7
CLK TO H	03A6	03A7	03E9	05B6						IB D29 H				08C7
CLK T100 H	03A5	03A6	03A7	03C2	11A7					IB D3 H				08D5
CLY T100 L	03A6	07B7								IB D30 H				08C7
CLK T150 H	02A7	02E4	02E8	03A6	03A8					IB D31 H				08C7
CLK T50 A L	03A7	03B7								IB D4 H				08D5
CLK T50 H	02A2	02A6	02E9	02C2	03A6					IB D5 H				08D5
CLK T50 L	03A6	02A2	07B7	07C7						IB D6 H				08D5
CLR ERR INT T3 H	02C7	06B8								IB D7 H				08D5
CLR_CHTP L	10B1	10C2								IB D8 H				08D5
CHT 0 L	03C1									IB D9 H				08D5
CHT 1 L	03C1									IB DATA AVAIL H				05D4 05D7
CP BUF LD H	05C7	05D2								IB DATA FLT H				05D4 05D7
CPU BUF LD T150 H	02C7	03D7								IB 10 H				08C5
CPU INTLCK PD CND H	02E8	04B3								IB 11 H				08C5
CPU INTLCK PD CND T50 H	02E7	03C6								IB 12 H				08C5
CPU OR DMA EFF T3 H	02E4	06D5								IB 13 H				08C5
CPU OR DMA EFF T3 L	02E5	02E5	02D3							IB LOC FEET H				05D3 05D7
CPU UP TIME CND H	02E9	04D3	04A3							IB P0 H				05C5
CPU UP TIME CND T50 H	02E7	03D6								IB BUS EFF BIT SET H				05D4 05D7
CPU XACTION DONE T3 H L	02E4	04B9								IBUS D0 H				04C3 07E4
CPU XACTION DONE T3 H	02E2	05C7	04D5							IBUS D1 H				04C3 07E4
CPU XACTION DONE T3 L	02E3	03C4								IBUS D10 H				04C3 07E4
Cycle Count=0 L	02E5	02E5	03C1							IBUS D11 H				04C3 07E4
										IBUS D12 H				08C7
										IB D13 H				08C7
										IB D14 H				08C7
										IB D15 H				08C7
										IB D16 H				08C7

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SIGNAL NAME				SIGNAL NAME				SIGNAL NAME						
LOCS (AFFONS : MARY SOURCES)				LOCS (AFFONS : MARY SOURCES)				LOCS (AFFONS : MARY SOURCES)						
BCI PHASE L	01A3	01B4	03E7	0445	BI 011 L	01C1				BI RESET L	01D5	11B7		
BCI PHR L	01B3	0248	04E5	BI 012 L	01C1					BI SPARE L	01C5			
BCI P00 L	01B3	03D1		BI 013 L	01C1					BI STF L	01C5			
BCI P01 L	01B3	03D1		BI 014 L	01C1					BI WR CND H	0245	02B2	02D5	03B5
BCI P50 L	01B3	02D5		BI 015 L	01C1					BUF A LOADED T3 H	02C4	06C5		
BCI P51 L	01B3	02D5		BI 016 L	01C1					BUF A LOADED T3 L	02C5	02D3	05B7	
BCI SC0 L	01B3	0242		BI 017 L	01C1					BUF AVAIL T150 H	02D5	02D7		
BCI SC1 L	01B3	0242		BI 018 L	01C1					BUF B LOADED T3 H	02C4	06C5		
BCI SC2 L	01B3	0242		BI 019 L	01C1					BUF B LOADED T3 L	02C5	02D3	05A7	
BCI SDE L	01B3	04C5		BI 020 L	01C1					BUF TRV L	10B3	10C2	1146	
BCI SEL L	01B3	04B5		BI 021 L	01C1					EUS 00 H	07B3	08C6		
BCI STP H	03C8	04A9		BI 022 L	01C1					EUS 01 H	07B3	08C6		
BCI STPASS L	01A4	03C7		BI 023 L	01C1					EUS 010 H	07C3	08C6		
BCI TIME H	01B4	03A7	0445	BI 024 L	01C1					EUS 011 H	07C3	08C6		
BCI TIME L	01A3	01B4		BI 025 L	01C1					EUS 012 H	07C3	08C6		
BI AC LO L	01B1	01C5	11D5	BI 026 L	01C1					EUS 013 H	07C5	08C6		
BI BAD A H	0243	04E5		BI 027 L	01C1					EUS 014 H	07C5	08C6		
BI BAD H	0243	06E5		BI 028 L	01C1					EUS 015 H	07E6	08C6		
BI BAD L	01D5	0244		BI 029 L	01C1					EUS 016 H	07E6	08C6		
BI BSI L	01B1			BI 030 L	01C1					EUS 017 H	07E6	08C6		
BI CND 0 H	0245	02B2		BI 031 L	01C1					EUS 018 H	07E6	08C6		
BI CND 1 H	0245	02B2		BI DC LO L	01B1	01C5	11C5			EUS 019 H	07E6	08C6		
BI CND 3 H	0245	02B2		BI 10 L	01B1					EUS 02 H	07B3	08D6		
BI CNFO L	01B1			BI 11 L	01B1					EUS 020 H	07E6	08C6		
BI CNF1 L	01B1			BI 12 L	01B1					EUS 021 H	07E6	08C6		
BI CNF2 L	01B1			BI 13 L	01B1					EUS 022 H	07D6	08D8		
BI DO0 L	01C1			BI 100 H	01D5	0545				EUS 023 H	07D6	08D8		
BI D01 L	01C1			BI 101 H	01D5	0545				EUS 024 H	07D6	08D6		
BI D02 L	01C1			BI 102 H	01D5	0545				EUS 025 H	07D6	08D8		
BI D03 L	01C1			BI 103 H	01D5	0545				EUS 026 H	07D6	08D8		
BI D04 L	01C1			BI IP INTP PEO L	01A3	02E2				EUS 027 H	07D6	08D8		
BI D05 L	01C1			BI LEH 0 H	0245	02C2	03C2			EUS 028 H	07E6	08C6		
BI D06 L	01C1			BI LEH 1 H	0245	03C2	03C2			EUS 029 H	07E6	08C6		
BI D07 L	01C1			BI LOWD FNDOP C/L	02E2	02C2				EUS 03 H	07E6	08C6		
BI D08 L	01C1			BI NO WFB L	01B1					EUS 030 H	07C1	08C6		
BI D09 L	01C1			BI 011 H	02C1	01E5				EUS 031 H	07C1	08C6		
BI D10 L	01C1			BI FO L	01B1					EUS 04 H	07E6	01E6		

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REV	NO	DATE	DESCRIPTION
LWST. MODIFIED Thu Nov 5 11:16:17 1967			

digital

DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY	CHKD
11/5/67	H. Goody		11/5/67	V. Irigo				
SHEET 1 OF 1			NEXT HIGHER ASSEMBLY			DRAWING NO.		
TITLE: E15.L0G10.1.13			Signal Cross Reference			REV		

AUTOMATED BY VAXKPL (V2.0)

PARTS LIST

SHEET A1 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
1	1	K-DD-5018232-0-0	50-18232-01		DRILL AND ETCH BOARD	1		
2	2		10-04313-00		10 MFD 20V +/-10% SOL	1		C87
3	3		10-12084-01		8.0 MFD 25V +75/-10% ALU	7		C1,C4,C5,C9,C31,C57,C58
4	4		10-12784-00		0.047MFD 50V +80/-20% Z5U C	79		C2,C6-C8,C10-C30,C32-C56, CONT C59-C74,C76-C85,C88-C90
5	5		10-13466-16		0.010MFD 50V +/-10% X7R C	3		C3,C75,C86
6	6		11-11577-00		PIV= 50 I0=200 MA - 4NS 1N4454	1		D8
7	7		11-14117-00		PIV= 40 I0= 75 A -4NS 1N4152	10		D3-D7,D9-D13
8	8		11-17373-02		LED ASSY, YELLOW	2		D1,D2
9	9		13-00229-00		100.0 .25 W 5.0 % CF	68		R5-R8,R18,R25,R31,R34,R36-R40, CONT R42,R44,R47,R50,R51,R54,R56, CONT R58,R60,R62,R63,R65-R68, CONT R70-R72,R75,R78,R81,R84,R85, CONT R89,R90,R94,R95,R98,R101,R102, CONT R104,R105,R107,R109,R110,R112, CONT R113,R115,R117,R118,R120,R122, CONT R123,R125,R126,R130,R134,R138, CONT R142-R144,R148,R151,R163,P168
10	10		13-00316-00	470.0	.25 W 5.0 % CF	2		R29,R129
11	11		13-00365-00	1.0 K	.25 W 5.0 % CF	8		R1,R10,R12,R14,R16,R22,R141, CONT R179
12	12		13-00439-00	3.30 K	.25 W 5.0 % CF	1		R178
13	13		13-00447-00	4.70 K	.25 W 5.0 % CF	1		R159
14	14		13-00479-00	10.0 K	.25 W 5.0 % CF	6		R69,R149,R160,R169,R172,R180
15	15		13-01317-00	10.0	.25 W 5.0 % CF	3		R133,R155,R181
16	16		13-01972-00	270.0	.25 W 5.0 % CF	1		R4
17	17		13-02377-00	39.0	.25 W 5.0 % CF	60		R17,R19-R21,R23,R24,R26-R28, CONT R30,R32,R33,R35,R41,R43,R45, CONT R46,R48,R49,R52,R53,R55,R57, CONT R59,R61,R64,R73,R74,R76,R77,

REVISION HISTORY		KPL MODULE FORMAT SECTION A OF A		DRN: G. STRYKER	DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE: 12-SEP-88	TITLE PARTS LIST	
SH	T1043-LTN01	B	[A] 00 [M]	CHK'D: T. MCCULLOUGH	XBIB	
SH	T1043-LTN02	C	[B] [N]	DATE: 12-SEP-88		
			[C] [P]	DES.ENG: D. HARTWELL	DOCUMENT NUMBER	
			[D] [Q]	DATE: 12-SEP-88	SIZE: K	PL T1043-0-DBP
			[E] [R]	RESP.ENG.: S. HOLMES	CODE: PL	NUMBER: T1043-0-DBP
			[F] [S]	DATE: 12-SEP-88	REV: C	
			[H] [T]	MFG.ENG: W. RODRIGUEZ	RELEASE DATE:	
			[J] [V]	DATE: 12-SEP-88	RELEASE STATUS: UNDER CHANGE	
			[K] [W]			
			[L] [Y]			
BASIC PART NUMBER: T1043		ASSEMBLY NUMBER: D-UA-T1043-0-0		TOP DOCUMENT NUMBER: K-DD-T1043-0-0		EDIT #: 5
FILE NAME: T1043J3.PLS						

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PARTS LIST

SHEET A2 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
18	18		13-02388-00	2.0 K	.25 W 5.0 % CF	2	CONT R79,R80,R82,R83,R86-R88,
19	19		13-09413-00	3.83 K	.25 W 1.0 % RN55D-F10	1	CONT R91-R93,R96,R97,R99,R100,R103,
20	20		13-17404-00	249.0	.25 W 1.0 % RN55D-F10	11	CONT R106,R119,R121,R124,R127,R128,
21	21		13-13582-00	140.0	.25 W 1.0 % RN55D-F10	11	CONT R132,R136,R139,R140,R145,R146,
22	22		13-15435-00	25.50 K	.25 W 1.0 % RN55D-F10	1	CONT R150,R154,R158
23	23		13-19610-01	750.0 K	.25 W 0.1 % RN55E-B 2	1	R137,R147
24	24		13-21636-01	R. NET	1.0K -4 2.0	1	R3
25	25		15-10706-00	XA 55	PNP 500MW SI 60 50 P	1	R108,R114,R131,R152,R153,R161,
26	26		15-11686-01		FET N 350MW TO-92	2	CONT R162,R166,R167,R173,R174
27	27		15-17551-01		FET 350MW P CHANNEL	2	R111,R116,R135,R156,R157,R164,
28	28		15-21002-01	2N 2369A	NPN 200MA 15V TO-18	3	CONT R165,R170,R171,R176,R177
29	29		18-14057-00		OSCILLATOR, XTAL 40.000 MHZ	1	R2
30	30		18-21631-01		OSCILLATOR, XTAL 10.0 KHZ	1	R175
31	31		19-12731-00	DEC	8646A TRANSCEIVER, 4BIT BUS	1	Z1
32	32		19-12799-00		LS00 NAND-GATE-QUAD 2IN,P	1	Q2
33	33		19-12807-00		LS10 NAND GATE-TRIPLE 3IN	1	Q3,Q7
34	34		19-12824-00		LS74 FF-D DUAL,EDGE TRIGG	1	Q4,Q8
35	35		19-13777-00		LS240 DRIVER,LINE, OCTAL,TR	1	Q1,Q5,Q6
36	36		19-13788-00		26510 TRANSCEIVER,BUS,QUAD	7	Y1
37	37		19-14214-00		LS374 FF-D OCTAL EDGE TRIG	1	E49
38	38		19-14987-00		8641-2 TRANSCEIVER,UNIBUS,	1	E34
39	39		19-15193-00		LS244 DRIVER,LINE, OCTAL,TR	2	E37
40	40		19-20442-01		74F374 FF-D, OCTAL, TRI-STATE	4	E33
41	41		19-21008-01		74F240 BUFFER/LINE DRIVER,I	1	E45
42	42		19-21010-01		74F373 OCTAL TRANSPARENT LA	1	E46-E48,E53-E56
43	43		19-21305-01		74F00 NAND GATE,QUAD,2-IN	1	E43
44	44		19-21306-01		74F02 NOR GATE,QUAD,2-IN	1	E57
45	45		19-21307-01		74F04 HEX INVERTER	2	E11,E19
46	46		19-21308-01		74F08 AND GATE,QUAD,2-IN	2	E20,E25,E29,E40
47	47		19-21309-01		74F10 NAND GATE,TRIPLE,3-I	1	E32
48	48		19-21310-01		74F11 AND GATE,TRIPLE,3-IN	1	E10
49	49		19-21312-01		74F32 OR GATE,QUAD,2-IN	2	E4
50	50		19-21314-01		74F74 FF-D, DUAL, POS.,EDGE	2	E28
51	51		19-22110-01	DC	028 CLOCK DRIVER	1	E13,E15
52	52		19-22111-01	DC	029 CLOCK RECEIVER	1	E3,E12
53	53		19-23311-01		74F543 OCTAL REG TRANSCEIVE	5	E9
54	54		19-23453-01		29823 REGISTER 9-BIT	1	E41
55	55		21-14462-00		4040B COUNTER/DIVIDER,BINA	1	E22,E31
56	56		21-21689-03	A DC324	BIIC ZMOS ARRAY W/SUPPRES	1	E36,E51
57	57		23-239K3-00	K3-07	PAL	1	E16
58	58		23-130K4-00	K4-01	PAL	1	E14
59	59		23-184K5-00	K5-03	PAL, OCTAL	1	E26,E27,E38,E39,E50
60	60		23-7L5 -00	L5-01		1	E42

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							XB1B			K	PL	T1043-0-DBP	C

AUTOMATED BY VAXKPL (V2.0)

PARTS LIST

SHEET A3 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MJN REV	DESCRIPTION	QTY 00 J3	PER VAR/REV	REFERENCE DESIGNATORS
61	61		90-09185-00	B	JUMPER, WIRE, INSULATED, BLACK	2		W1, W3
62	62		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R		
63	63		21-28302-01		DC7070 GATE ARRAY, 8K, 1.5MICRON	1		E24
64	64		23-224K3-00		K3-07 PAL	1		E8
65	65		23-225K3-00		K3-07 PAL	1		E17
66	66		23-226K3-00		K3-07 PAL	1		E30
67	67		23-227K3-00		K3-07 PAL	1		E52
68	68		23-6L5 -00		L5-01	1		E23
69	69				*** THIS ITEM IS NOT USED ***	-		
70	70				*** THIS ITEM IS NOT USED ***	-		

D	I	G	I	T	A	L	TITLE			SECTION A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							XBIB						K	PL	T1043-0-DBP	C

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS		
		5418172	CLK ARBITER MODULE	C1	C2	C3
K-PC-5418172-0-DBV	-		P.C. DESIGN DATABASE (VLS)	A	A	B
K-CS-5418172-0-DBX	-		C.S. DESIGN DATABASE (VALID)	A	B	C
K-PL-5418172-1-DBP	1		CLK ARBITER PARTS LIST	A	B	C
E-UA-5418172-1-0	4		CLK ARBITER UNIT ASSEMBLY	A	A	B
K-IF-5418172-1-0	1		PLO DATA INDEX	A	B	C
K-ST-5418172-1-0	1		BUILD DATA INDEX	A	B	C
K-RM-5418172-0-0	1		CLK ARBITER REVISION MATRIX	A	B	C
K-CS-5418172-0-0001	1		CLK ARBITER CS PAGE 1	A	B	C
K-CS-5418172-0-0002	1		CLK ARBITER CS PAGE 2	A	B	C
K-CS-5418172-0-0003	1		CLK ARBITER CS PAGE 3	A	B	C
K-DD-5018171-0-0	1		50 LEVEL DRAWING DIRECTORY	A	A	A
		5018171-01	DRILL AND ETCH BOARD	C1	C1	C1

NOTES:

REVISION HISTORY

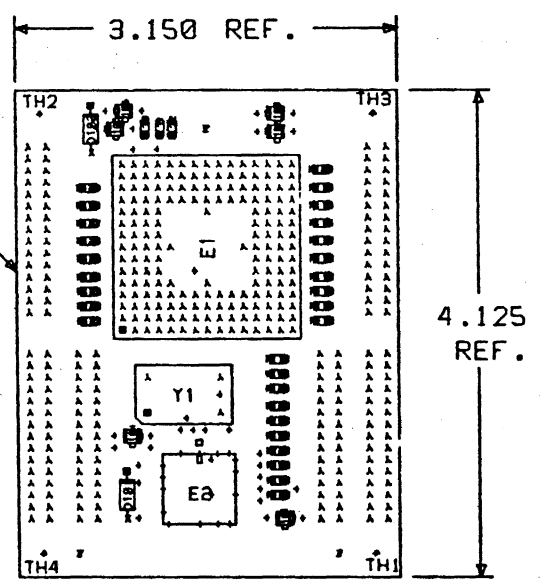
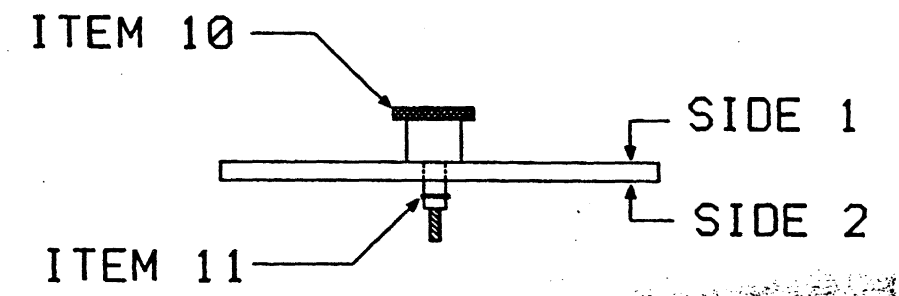
REV	INIT	LTN	LTN
A	B	C	
E	O	N	O
D	9/87	1/88	5/88

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DRN: G. STRYKER	DATE: 25-MAY-88	d i g i t a l		
CHK'D: T. MCCULLOUGH	DATE: 25-MAY-88	TITLE CLOCK ARBITER MODULE (DCARD)		
DES.ENG.: B. LIN	DATE: 25-MAY-88	SHEET 1 OF 1	EDIT: 23	
RESP.ENG.: J. OBBARD	DATE: 25-MAY-88	DOCUMENT NUMBER		
		DD FILENAME: 5418172C.DDF		
MFG.ENG.: G. VICKS	DATE: 25-MAY-88	SIZE K	CODE DD	NUMBER 5418172-0-0
				REV C

SIDE 1
VIEWED FROM SIDE 1

REF. VIEW



TYP 3 PLACE
.228 HOLES

CHK	DESIGN BY	ENGINEER	CHANGE NO	DATE REV	CHK	DESIGN BY	ENGINEER	CHANGE NO	DATE REV
	J.H. HARTEL	J. OBBARD	TN002	5/88/8					

NOTES

1. ADD BAR CODE AS REQ'D.
2. SH. BLOCK INDICATES COMP'Y BYN Y.
3. CHANGE COMPONENT E1 FROM 21-27565-81 TO 21-27565-82. (COMPLETE 21-27565-81 BEFORE PHASE-IN OF 21-27565-82.)

ETCH REV. C1 AS FAB'D

SIGNATURES	DATE
DRWY: MILLER B. MILLER	5/78/8
CHECKED: TREG BERRY	5/78/8
MECH ENG: JIN STAPLES	5/78/8
PROD ENG: JIN STAPLES	5/78/8
PROD GRD: VICKS	5/78/8
SCALE: 2:1	
SHEET 1 OF 4	
TOP LOC NO: K-00-5418122-8-8	

digital

TITLECLOCK ARBITER
COMPONENT & HOLE DRAW.

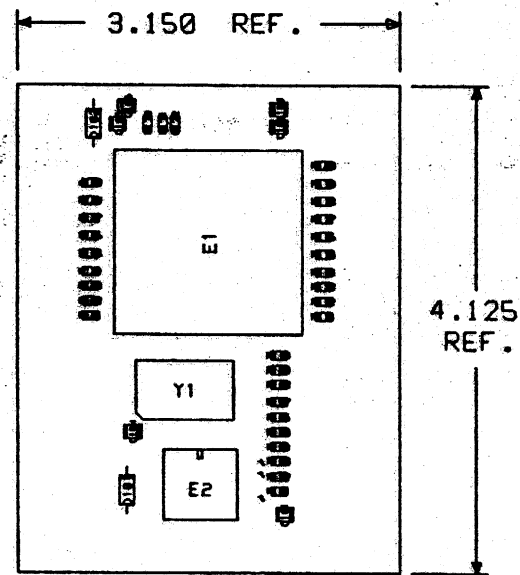
SCALE: 2:1

SHEET 1 OF 4

TOP LOC NO: K-00-5418122-8-8

WO# 174426

SIDE 1
VIEWED FROM SIDE 1

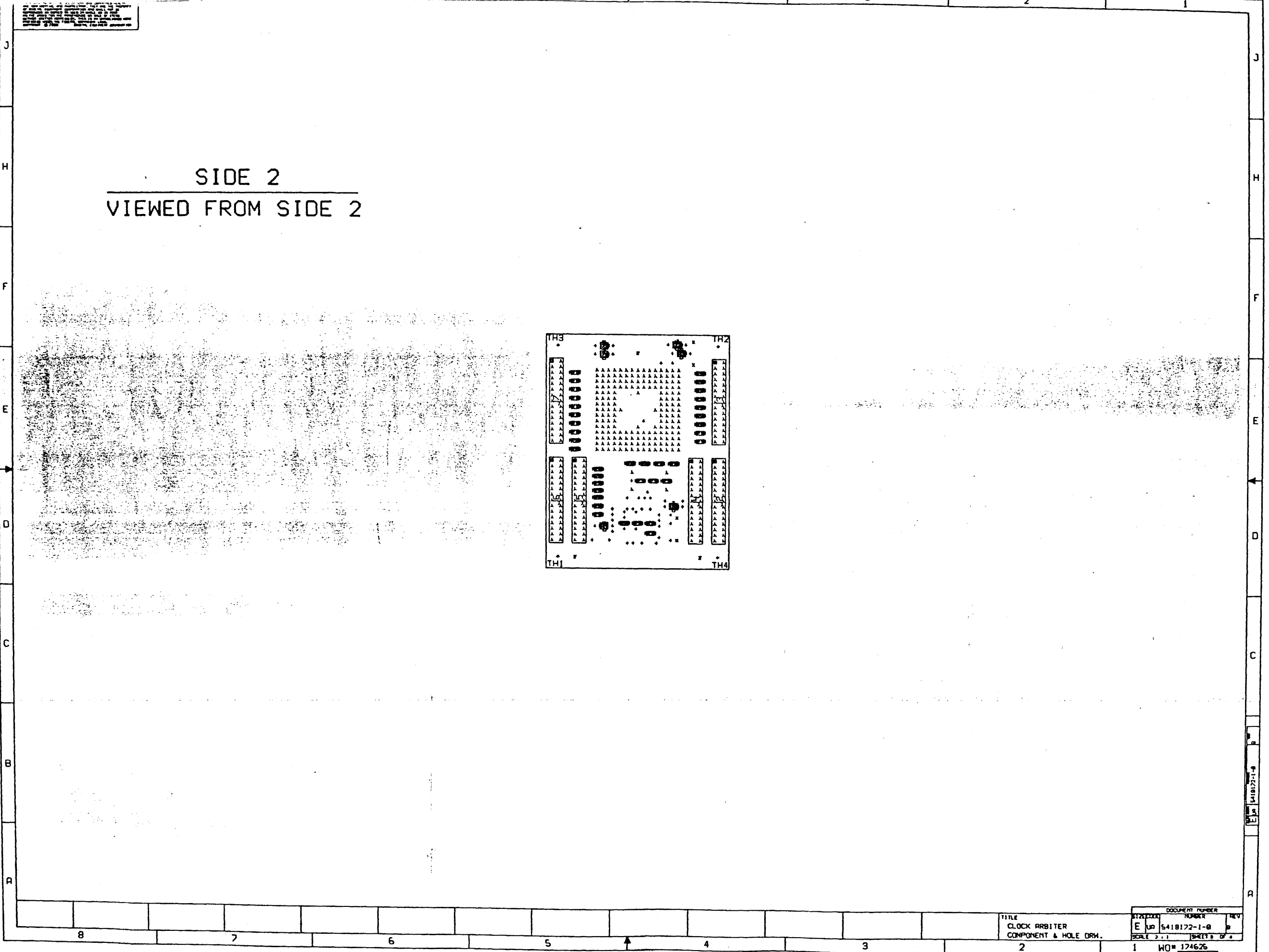
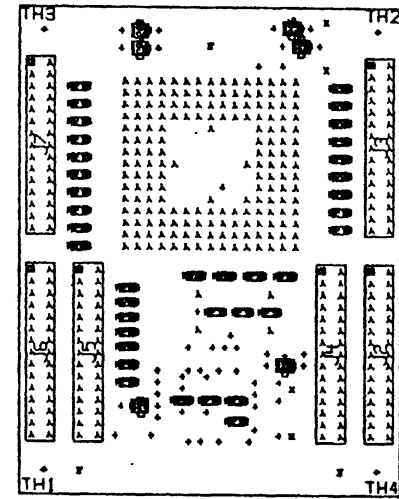


TITLE		DOCUMENT NUMBER	
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COMPONENT & HOLE DRW.			

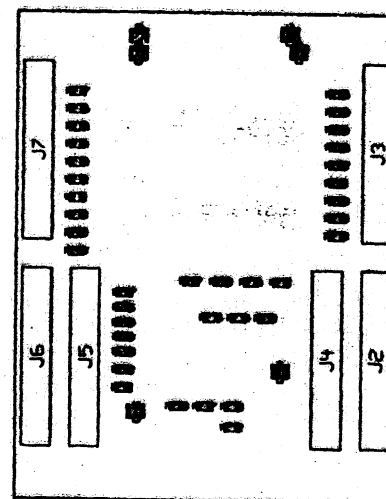
8 7 6 5 4 4 3 2 1 2 1 UN# 174625

UNCLASSIFIED

SIDE 2
VIEWED FROM SIDE 2



SIDE 2
VIEWED FROM SIDE 2



8	7	6	5	4	3	2	1	WO# 124625
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TITLE	DOCUMENT NUMBER
CLOCK ARBITER	5418172-1-0
COMPONENT & HOLE DRW.	REV

**XMI CLOCK/ARBITER
DAUGHTERBOARD**

J2		J3		J4		J5		J6		J7	
XMI RES REQ<7> L	1	GND L	1	XMI HOLD L	1	XMI GRANT<8> L	1	XMI CMD REQ<8> L	1	GND L	1
XMI RES REQ<6> L	2	GND L	2	XMI SUP L	2	XMI GRANT<9> L	2	XMI CMD REQ<9> L	2	XMI TIME<10> L	2
XMI RES REQ<5> L	3	XMI TIME<6> H	3	GND L	3	GND L	3	XMI CMD REQ<10> L	3	GND L	3
XMI RES REQ<4> L	4	GND L	4	XMI ERR DEF H	4	XMI GRANT<10> L	4	XMI CMD REQ<11> L	4	XMI TIME<11> L	4
XMI RES REQ<3> L	5	XMI PHASE<3> L	5	GND L	5	XMI GRANT<11> L	5	XMI CMD REQ<12> L	5	XMI TIME<12> L	5
XMI RES REQ<2> L	6	GND L	6	PLUS 5VBB H	6	GND L	6	XMI CMD REQ<13> L	6	XMI TIME<13> L	6
XMI RES REQ<1> L	7	XMI TIME<7> H	7	PLUS 5VBB H	7	XMI GRANT<12> L	7	XMI CMD REQ<14> L	7	GND L	7
PLUS 5VBB H	8	XMI TIME<1> H	8	PLUS 5VBB H	8	XMI GRANT<13> L	8	GND L	8	XMI TIME<9> H	8
PLUS 5VBB H	9	GND L	9	PLUS 5VBB H	9	XMI GRANT<14> L	9	PLUS 5VBB H	9	XMI TIME<8> H	9
PLUS 5VBB H	10	XMI PHASE<2> L	10	PLUS 5VBB H	10	GND L	10	PLUS 5VBB H	10	XMI TIME15 OUT H	10
PLUS 5VBB H	11	GND L	11	PLUS 5VBB H	11	XMI TIME15 IN H	11	PLUS 5VBB H	11	XMI TIME<10> H	11
PLUS 5VBB H	12	XMI TIME<7> L	12	PLUS 5VBB H	12	GND L	12	PLUS 5VBB H	12	XMI TIME<11> H	12
PLUS 5VBB H	13	GND L	13	PLUS 5VBB H	13	XMI PHASE8 IN L	13	PLUS 5VBB H	13	XMI TIME<12> H	13
PLUS 5VBB H	14	XMI PHASE<4> L	14	PLUS 5VBB H	14	GND L	14	PLUS 5VBB H	14	GND L	14
PLUS 5VBB H	15	XMI TIME<1> L	15	PLUS 5VBB H	15	XMI TIME15 IN L	15	PLUS 5VBB H	15	XMI TIME<14> H	15
XMI CMD REQ<7> L	16	GND L	16	GND L	16	XMI GRANT<7> L	16	XMI RES REQ<8> L	16	XMI TIME<9> L	16
XMI CMD REQ<6> L	17	XMI TIME<5> H	17	GND L	17	GND L	17	XMI RES REQ<9> L	17	GND L	17
XMI CMD REQ<5> L	18	GND L	18	CLKA EN L	18	XMI GRANT<6> L	18	XMI RES REQ<10> L	18	XMI TIME<8> L	18
XMI CMD REQ<4> L	19	XMI TIME<4> H	19	GND L	19	XMI GRANT<5> L	19	XMI RES REQ<11> L	19	XMI TIME15 OUT L	19
XMI CMD REQ<3> L	20	XMI TIME<3> H	20	XMI DEFA H	20	GND L	20	XMI RES REQ<12> L	20	GND L	20
XMI CMD REQ<2> L	21	XMI TIME<2> H	21	XMI DEFB H	21	XMI GRANT<4> L	21	XMI RES REQ<13> L	21	XMI PHASE<5> L	21
XMI CMD REQ<1> L	22	GND L	22	GND L	22	XMI GRANT<3> L	22	XMI RES REQ<14> L	22	GND L	22
GND L	23	XMI TIME<6> L	23	PLUS 5VBB H	23	XMI GRANT<2> L	23	GND L	23	XMI TIME<14> L	23
PLUS 5VBB H	24	XMI TIME<5> L	24	PLUS 5VBB H	24	GND L	24	GND L	24	GND L	24
PLUS 5VBB H	25	GND L	25	PLUS 5VBB H	25	XMI GRANT<1> L	25	GND L	25	XMI PHASE<6> L	25
GND L	26	XMI TIME<4> L	26	PLUS 5VBB H	26	XMI ACLO L	26	PLUS 5VBB H	26	GND L	26
PRM DCLO L	27	XMI TIME<3> L	27	PLUS 5VBB H	27	XMI DCLO L	27	PLUS 5VBB H	27	XMI PHASE<7> L	27
PRM ACLO L	28	XMI TIME<2> L	28	PLUS 5VBB H	28	XMI RESET L	28	PLUS 5VBB H	28	GND L	28
PRM RESET L	29	GND L	29	PLUS 5VBB H	29	GND L	29	PLUS 5VBB H	29	XMI PHASE8 OUT L	29
GND L	30	XMI PHASE<1> L	30	PLUS 5VBB H	30	GND L	30	PLUS 5VBB H	30	XMI TIME<13> H	30

MODULE REV. C3

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REVISION HISTORY	
REV	ECO NUMBER DATE

DRAWING
DCARD_C3
DCARD_C3
LAST_MODIFIED=Mon May 23 18:34:20 1988



DRN: BILL LIN
DATE 12-FEB-87
CHK'D: B. BLANCHARD
DATE 17-SEP-87

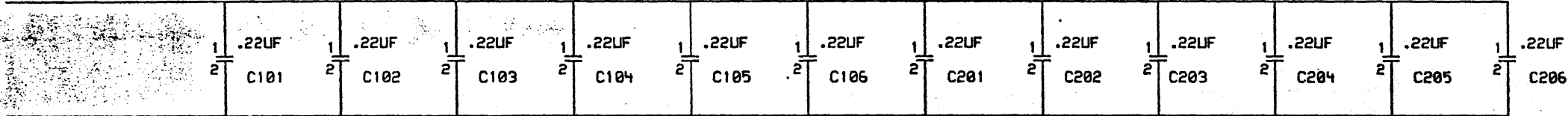
ENG: BILL LIN
DATE 12-FEB-87
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:
K-QD-5418172-0-0

TITLE: XMI CLOCK ARBITER
SIZE K
CODE CS
NUMBER 5418172-0-0002
REV C

XMI CLOCK/ARBITER
DAUGHTERBOARD

PLUS 5VBB H

GND L



MODULE REV. C3

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REVISION HISTORY
REV. ECD NUMBER DATE

DRAWING
DCARD_C3
DCARD_C3
LAST_MODIFIED=Mon May 23 18:34:29 1988



DRN: BILL LIN
DATE 12-FEB-87
CHK'D: D. BLANCHARD
DATE 17-SEP-87

ENG: BILL LIN
DATE 12-FEB-87
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:
K-DD-5418172-0-0

TITLE: XMI CLOCK ARBITER
SIZE CODE NUMBER REV
K CS 5418172-0-0003 C

DOC_NUMBER=K-IF-5418172-1-0

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5418172_01_C3_ARTCHK_SPS2.GER
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E-UA-5418172-1-0-B-2.PLO
E-UA-5418172-1-0-B-3.PLO
E-UA-5418172-1-0-B-4.PLO
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K-CS-5418172-0-0001-C-01.VC1
K-CS-5418172-0-0002-C-02.PLO
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K-IF-5418172-1-0-C-1.PLO
K-PL-5418172-1-0-C-1.PLO
K-ST-5418172-1-0-C-1.PLO

Last edited by CHKVUE:PVIEW 2-JUN-1988 Prev. file: K-IF-5418172-1-0-C-1

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digital

TOP_DOCUMENT=K-DD-5418172-0-0
ENG=J. OBBARD
LAST_MODIFIED=5/88

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COMMENT=DATA INDEX
DESIGN_OBJECT=CLK ARB

ABBREV=CLK ARB REVISION=

SHEET=1 OF 1

DOC_NUMBER=K-IF-5418172-1-0

DOC_REV C

DOC_NUMBER=K-ST-5418172-1-0

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5418172_01_C3_INS_MAN.PRT
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5418172_01_C3_ONS_S1.ODF
5418172_01_C3_ONS_S2.ODF
K_RM_5418172_0_0_C_1.LIS

Last edited by CHKVUE::PVIEW 1-JUN-1988 Prev. file: K_ST_5418172_1_0_C_1

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digital

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ENG=J. OBBARD
LAST_MODIFIED=5/88

TITLE: BUILD DATA INDEX

COMMENT=DATA INDEX
DESIGN_OBJECT=CLK ARB ABBREV=CLK ARB REVISION=

SHEET=1 OF 1 DOC_NUMBER=K-ST-5418172-1-0

DOC_REV C

DOC_NUMBER=K-IF-5418172-1-0

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5418172_01_C1_ARTCHK_SPS2.GER
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E_UA_5418172_1_0_A_2.PLO
E_UA_5418172_1_0_A_3.PLO
E_UA_5418172_1_0_A_4.PLO
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K_CS_5418172_0_0003_A_03.VC1
K_IF_5418172_1_0_A_1.PLO
K_ST_5418172_1_0_A_1.PLO

Last edited by CHKVUE::PVIEW 1-DEC-1987 Prev. file: K_IF_5418172_1_0_A_1

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digital

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ENG=J. OBBARD
LAST_MODIFIED=1/87

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DESIGN_OBJECT=DCARD

ABBREV=DCARD

REVISION=

SHEET=1 OF 1

DOC_NUMBER=K-IF-5418172-1-0

DOC_REVA

OPTION NAME: CLOCK ARBITER
USED IN: CALYPSO/XMI

REVISION HISTORY OF XMI CLOCK ARBITER

FUNCTIONAL HISTORY OF CHANGES WITH EACH PASS

RM ECO #
Eng Proto
Etch Rev. A1
Mod. Rev. A1

INITIAL PASS (functional)

PCA-001
Etch Rev. B1
Mod. Rev. B1

- Removed pin 1 of OSC. (Y1) from ground network.
- Added resistor to pin E1-Q1 to ground.
- Added resistor to pin E2-44 to +5VBB.
- Corrected shorted etch problem near thumb screw on layer 1.
- Added three (3) test vias.
- Moved lower two thumb screws to new location.
- Changed hole sizes as following; .013 changed to .020, .038 changed to .036.
- Added three (3) series resistors to signals XMI DEF B, XMI DEF B, PRM RESET L.
- Added two (2) bypass schottky diodes to following signals XMI ACLO L, XMI DCLO L.
- Moved component as manufacturing requested.

PCA-002
Etch Rev. C1
Mod. Rev. C1

- Added nine (9) series resistors to the clock lines between E1 and E2.
- Moved Arb. (E1) as requested by manufacturing.
- Moved resistors as requested by manufacturing.
- Moved Osc. (Y1) as requested by manufacturing.
- Rotated and moved capacitors near top of module, as requested by manufacturing.
- Added three (3) test vias.
- Cleaned up silk-screen, so as not to touch SM pads.
- Added following drawing to package;
K-RM-5418172-0-0, K-IF-5418172-1-0, K-ST-5418172-1-0, K-IF-5018171-1-0, K-ST-5018171-1-0

ECO-001
Etch Rev. C1
Mod. Rev. C2

- Removed retaining ring 90-10791-01 per manufacturing request.
- Added retaining ring 90-08460-00 to improve repairability.
- Changed thumbscrew 74-34839-01 standoff revision from rev. AX01 to B01.

ECO-002
Etch Rev. C1
Mod. Rev. C3

- Removed XMI Control Arbiter Chip 21-27565-01 (DC7071 Rev B) from KPL.
- Added XMI Control Arbiter Chip 21-27565-02 (DC7071 Rev C) to KPL.
- New pass (-02) improves process variation yields.

PURCHASE PART NUMBER 50-18171-01
54-18172-01

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Revision Matrix
(History)

DRN: D. BLANCHARD	DATE: 6/88	d i g i t a l		
CHK'D: J. OBBARD	DATE: 6/88	T I T L E		
RESP. ENG.: B. LIN	DATE: 6/88	XMI CLOCK ARBITER FUNCTIONAL REVISION MATRIX		
MFG. ENG.: G. VICKS	DATE: 6/88	SHEET 1 OF 1		
FIELD SERVICE: B. GAYTON	DATE: 6/88	DOCUMENT NUMBER		
		SIZE	CODE	NUMBER
		K	RM	5418172-0-0
				REV
				C

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1		50-18171-01		DRILL AND ETCH BOARD	1	
2	2		10-24053-12		0.22 MFD 50V +/-20% Z5U CE	12	C101-C106,C201-C206
3	3		11-17166-00		PIV= 20 I0= 1.00A D0-35	2	D101,D102
4	4		12-11004-10		PCD HEADER 30POS(2X15).100CC	6	J2-J7
5	5		13-23827-30		20.0 .25 W 1.0 % CHIP	3	R101-R103
6	6		13-23827-68		49.9 .25 W 1.0 % CHIP	64	R104-R132,R201-R226,R229-R237
7	7		13-23829-01		1.00 K .25 W 1.0 % CHIP	2	R227,R228
8	8		21-27565-02		DC7071C GATE ARRAY,XMI CTL ARBIT	1	E1
9	9		21-26703-01		DC531 XMI CLOCK DECODER CHIP <XC	1	E2
10	10		74-34839-01	B	STANDOFF,CARD	3	
11	11		90-08460-00		RING, RETAINING, EXTERNAL, FOR 3	3	
12	12		18-26454-01		OSCILLATOR,XTAL,CMOS 46.900	1	Y1

REVISION HISTORY		KPL MODULE FORMAT SECTION A OF A		DRN: G. STRYKER	D I G I T A L		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE: 25-MAY-88	TITLE PARTS LIST		
J0	5418172-LTN02	C	[A] 01 [M] [B] [N] [C] [P] [D] [Q] [E] [R] [F] [S] [H] [T] [J] [V] [K] [W] [L] [Y]	CHK'D: T. MCCULLOUGH DATE: 25-MAY-88	CLK ARBITER MODULE (DCARD)		
				DES.ENG: B. LIN DATE: 25-MAY-88	DOCUMENT NUMBER		
				RESP.ENG.: J. OBBARD DATE: 25-MAY-88	SIZE	CODE	NUMBER
				MFG.ENG: G. VICKS DATE: 25-MAY-88	K	PL	5418172-1-DBP
				RELEASE DATE: RELEASE STATUS: UNDER CHANGE			
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
5418172		E-UA-5418172-1-0		K-DD-5418172-0-0		5418172C3.PLS	2
"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."							

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION/REVISION
1	1 E-IA-7024418-0-DBU	70-24418-01		HOUSING ASSY	1	
2	2	54-16574-01		CONTROL PANEL FOR SCORPIO SYSTEMS.	1	
3	3	70-22117-01		CONTROL BEZEL ASSEMBLY	1	
4	4	74-33423-01		BUTTON,RESET	1	
5	5	12-19245-00		BATTERY,3CELL 3.75V .18MA NICAD	1	
6	6	20-29176-01		MODULE,XTC XMI TIMING CONTROL	1	
7	7	74-33477-01		HOLDER,BATTERY PACK	1	
8	8	20-28997-01		MODULE,TK FILTER OUTPUT	1	
9	9	12-28804-01		PCB HEADER 26PIN(2X13).100CC STR	2	
10	10	90-10568-01		STANDOFF,PC BOARD	4	
11	11	90-07880-00		TIE,CABLE BUNDL DIA 0-1.14"=101	2	
12	12	90-09643-02		SCREW,SEMS PAN PHIL 4-40	2	
13	13	90-07015-00		GROMMET,ROUND RUBBER	1	
14	14	90-09984-03		SCREW,SEMS PAN PHIL 6-32	8	
15	15	90-00030-06		RIVET,BLIND DOME 0.125DX0.337LG	2	
16	16	74-35920-01		PLATE,HOUSING	2	
17	17	74-35925-01		PLATE,POWER FILTER	1	
18	18	74-35922-01		BRACKE, TOP HOUSING	1	
19	19	74-35924-01		PLATE,CONTROL PANEL	1	
20	20	17-01817-01		CABLE ASSY,26 COND,FLAT,26(2X13)RE	1	
21	21	17-01818-01		CABLE ASSY,20 COND,FLAT,26PIDC-20P	1	
22	22	17-01816-01		CABLE ASSY 20 COND,FLAT,26PIDC-20P	1	
23	23	90-06565-00		NUT,HEX EXT TOOTH LCKWSHR 10-32X	2	
24	24	90-06660-00		WASHER,FLAT SST	2	
25	25	90-09984-07		SCREW,SEMS PAN PHIL 6-32	20	
26	26	90-06655-00		WASHER,FLAT SST	2	

REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A	DRN: H.FOLSOM	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 09-JUN-87					
---	INITIAL	A	[A]	01	CHK'D: J. KUSHIGAN	TITLE PARTS LIST				
AS	LTN01	B	[B]		DATE: 12-AUG-87	SYSTEM CONTROL ASSY				
SR	7024903-LTN02	C	[C]		DES.ENG: M. ZAMBARANO					
			[D]		DATE: 09-OCT-87	DOCUMENT NUMBER				
			[E]			SIZE	CODE	NUMBER	REV	
			[F]		RESP.ENG.: M. ZAMBARANO					
			[H]		DATE: 17-AUG-87	K	PL	7024903-0-DBP	C	
			[J]							
					MFG.ENG: R. DISTEFANO	RELEASE DATE: 04-MAY-88				
					DATE: 17-AUG-87	RELEASE STATUS: RELEASED				
					BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #	
					7024903	E-AD-7024903-0-DBU	E-AD-7024903-0-DBU	7024903C.PLS	2	

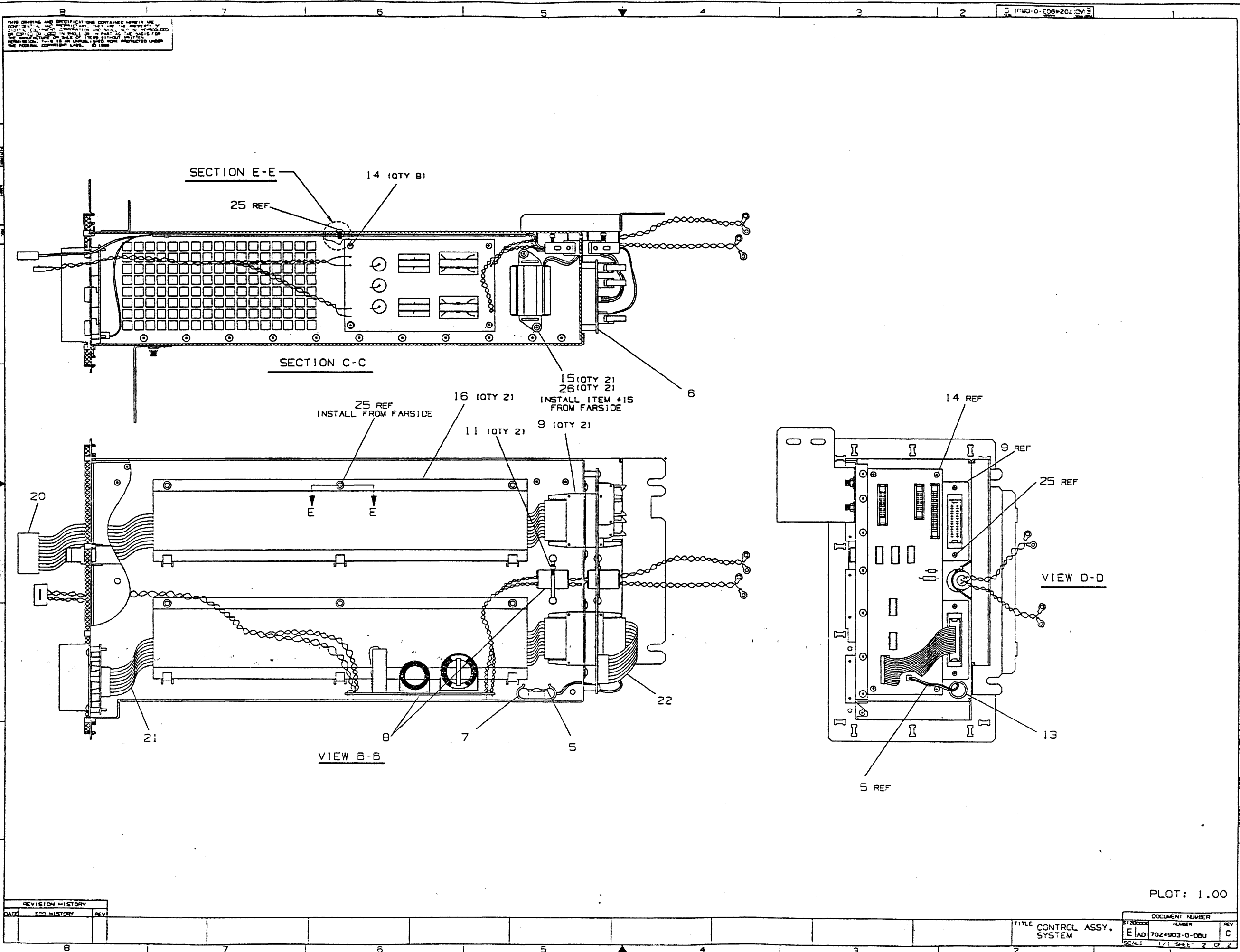
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LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	E	F
						E5	F5
33	33		36-26211-10		LABEL, SERIAL/PWR RATING, DOMESTIC U	1	-
34	34		36-26211-11		LABEL, SERIAL/PWR RATING NONDOMESTI	-	1
35	35	SEE NOTE # 35	36-26211-12		LABEL, SERIAL/PWR RATING, DOMESTIC U	-	1
36	36		91-07252-00		TUBING, SHRINK .375ID EXP	-	A/R

35 NOTE: ITEM 35 IS USED IN PLACE OF ITEM 34 IN IRELAND

! D ! I ! G ! I ! T ! A ! L !	! TITLE	! SECTION A OF A	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! ! ! ! ! ! ! !	H405 ASSEMBLY		! ! ! !	H405-0-DBP	! E !

SCALE: 0.313



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702-903-0-001

REVISION HISTORY		
DATE	ECO HISTORY	REV

PLOT: 1.00

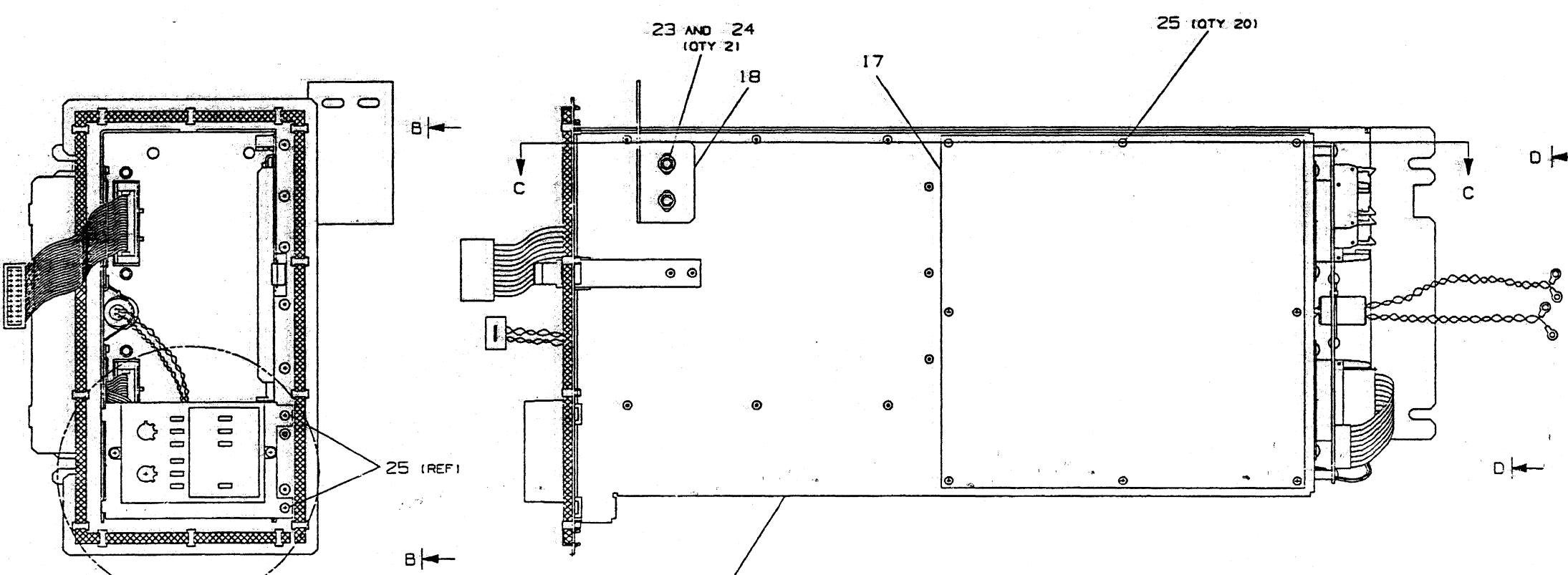
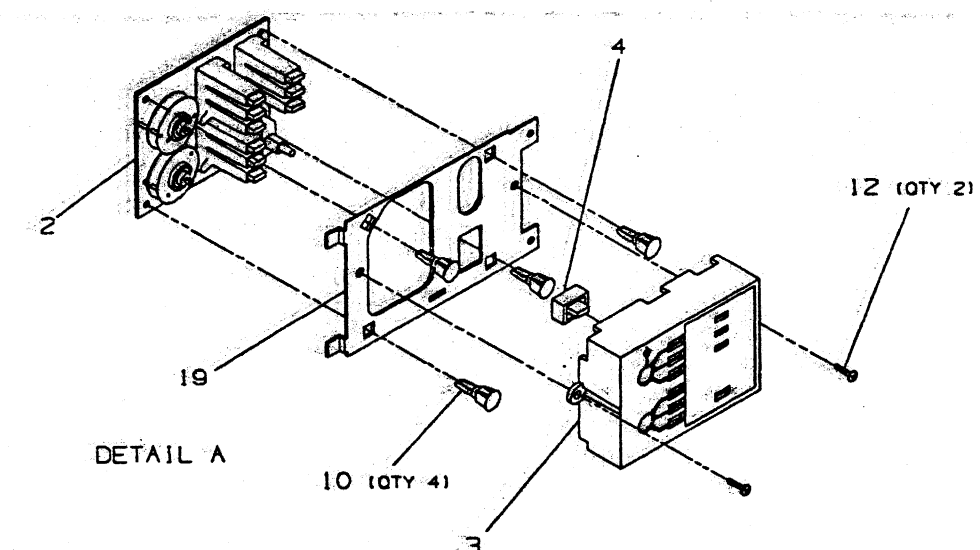
TITLE	CONTROL ASSY. SYSTEM	DOCUMENT NUMBER	702-903-0-001
SCALE	1/1	SHEET	2 OF 2

SCALE: 0.313

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED ARE:
FRACTIONS DECIMALS MILLIMETERS
±.005 ±.002 ±.010

LEGEND		
PART NO	REV	VARIATION
7024903-01	A6	AS SHOWN

- NOTES:
1. MARKPART NO., REV LEVEL AND VENDOR I.D. PER DEC STD 178. (NEAR SIDE)
 2. PART SHALL CONFORM TO DEC STD 187.
 3. TORQUE SCREW (ITEM 12) TO 4.5±.9 IN/LBS.
TORQUE SCREW (ITEM 25) TO 9.0±1.8 IN/LBS.
TORQUE SCREW (ITEM 26) TO 9.0±1.8 IN/LBS.



SEE DETAIL A

PLOT AT: 1.00
LAYER: 1 = WORK (SHT ONE)
LAYER: 2 = FORMAT (SHT TWO)
LAYER: 3 = WORK (SHT TWO)
LAYER: 4 = FORMAT (SHT TWO)
CAUTION: OFF SHEETS PARTS LISTS EXISTS
SEE K-PL-7024903-0-DBP

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INCHES	MILLIMETERS	DIMENSION RANGE IN INCHES
±.005	±.002	0.125 - 1.125
±.010	±.005	1.125 - 3.000
±.015	±.008	3.000 - 6.000
±.020	±.010	6.000 - 12.000
±.030	±.015	12.000 - 24.000
±.040	±.020	24.000 - 48.000
±.050	±.025	48.000 - 96.000
±.075	±.037	96.000 - 192.000
±.005	±.002	0.125 - 1.125
±.010	±.005	1.125 - 3.000
±.015	±.008	3.000 - 6.000
±.020	±.010	6.000 - 12.000
±.030	±.015	12.000 - 24.000
±.040	±.020	24.000 - 48.000
±.050	±.025	48.000 - 96.000
±.075	±.037	96.000 - 192.000

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DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS		
		5417243-01	XTC MODULE	F1	H01	J01
K-PC-5417243-0-DBV	-		PC DESIGN DATABASE	A	A	B
K-PL-5417243-0-DBP	4		XTC MODULE PARTS LIST	A	B	
D-UA-5417243-0-0	4		XTC MODULE UNIT ASSEMBLY	A	B	
K-IF-5417243-0-0	1		PLO DATA INDEX	A	B	
K-ST-5417243-0-0	1		BUILD DATA INDEX	A	B	
K-PL-5417243-1-DBP	2		XTC MODULE PARTS LIST			A
D-UA-5417243-1-0	2		XTC MODULE UNIT ASSEMBLY			A
K-IF-5417243-1-0	1		PLO DATA INDEX			A
K-ST-5417243-1-0	1		BUILD DATA INDEX			A
K-CS-5417243-0-DBX	-		SCHEMATIC DATABASE	A	B	
K-CS-5417243-0-1	1		XTC MODULE SCHEMATIC	A	B	
K-CS-5417243-0-2	1		XTC MODULE SCHEMATIC	A	B	
K-CS-5417243-0-3	1		XTC MODULE SCHEMATIC	A	B	

NOTES:

REVISION HISTORY	REV			
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	DATE	4/88	6/88	7/88
	A	B	C	

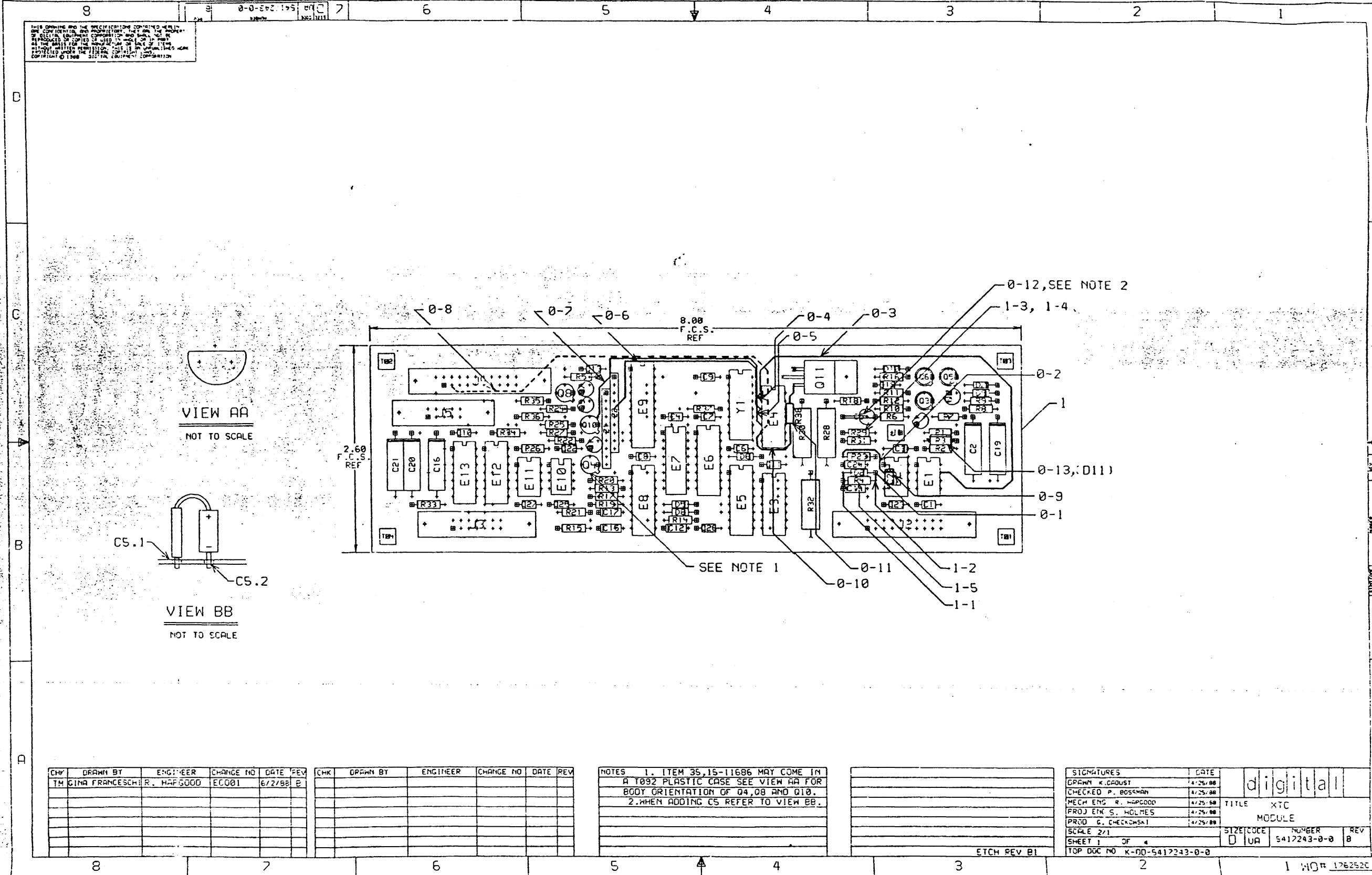
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DRN: G. STRYKER	DATE: 7/88	d i g i t a l		
CHK'D: T. MCCULLOUGH	DATE: 7/88	TITLE XTC MODULE		
DES.ENG.: R. HAPGOOD	DATE: 7/88	SHEET 1 OF 2	EDIT: 13	
RESP.ENG.: S. HOLMES	DATE: 7/88	DOCUMENT NUMBER		
		DD FILENAME: 5417243C.DDF		
MFG.ENG.: G. VICKS	DATE: 7/88	SIZE K	CODE DD	NUMBER 5417243-0-0
				REV C

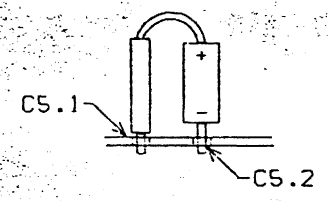
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K-CS-5417243-1-1	1		XTC MODULE SCHEMATIC			A
K-CS-5417243-1-2	1		XTC MODULE SCHEMATIC			A
K-CS-5417243-1-3	1		XTC MODULE SCHEMATIC			A
K-CS-5417243-1-4	1		XTC MODULE SCHEMATIC			A
K-BD-5417242-0-0	1		BLOCK DIAGRAM	A	A	A
K-DD-5017242-0-0	1	50-17242-01	DRAWING DIRECTORY ETCHED CIRCUIT BOARD	A B1	A B1	B C1

d	i	g	i	t	a	l	TITLE	SHEET 2 OF 2	SIZE	CODE	DOCUMENT NUMBER	REV
							XTC MODULE		K	DD	5417243-0-0	C

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VIEW AA
NOT TO SCALE



VIEW BB
NOT TO SCALE

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
TM	CINA FRANCESCHI	R. HAPGOOD	EC001	6/2/88	2

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES
 1. ITEM 35,15-11686 MAY COME IN A T092 PLASTIC CASE SEE VIEW AA FOR BODY ORIENTATION OF Q4, Q8 AND Q10.
 2. WHEN ADDING CS REFER TO VIEW BB.

SIGNATURES	DATE
DRAWN K. CAUST	4/25/88
CHECKED P. BOSSMAN	4/25/88
MECH ENG R. HAPGOOD	4/25/88
PROJ ENK S. HOLMES	4/25/88
PROD G. CHECKOWSKI	4/25/88

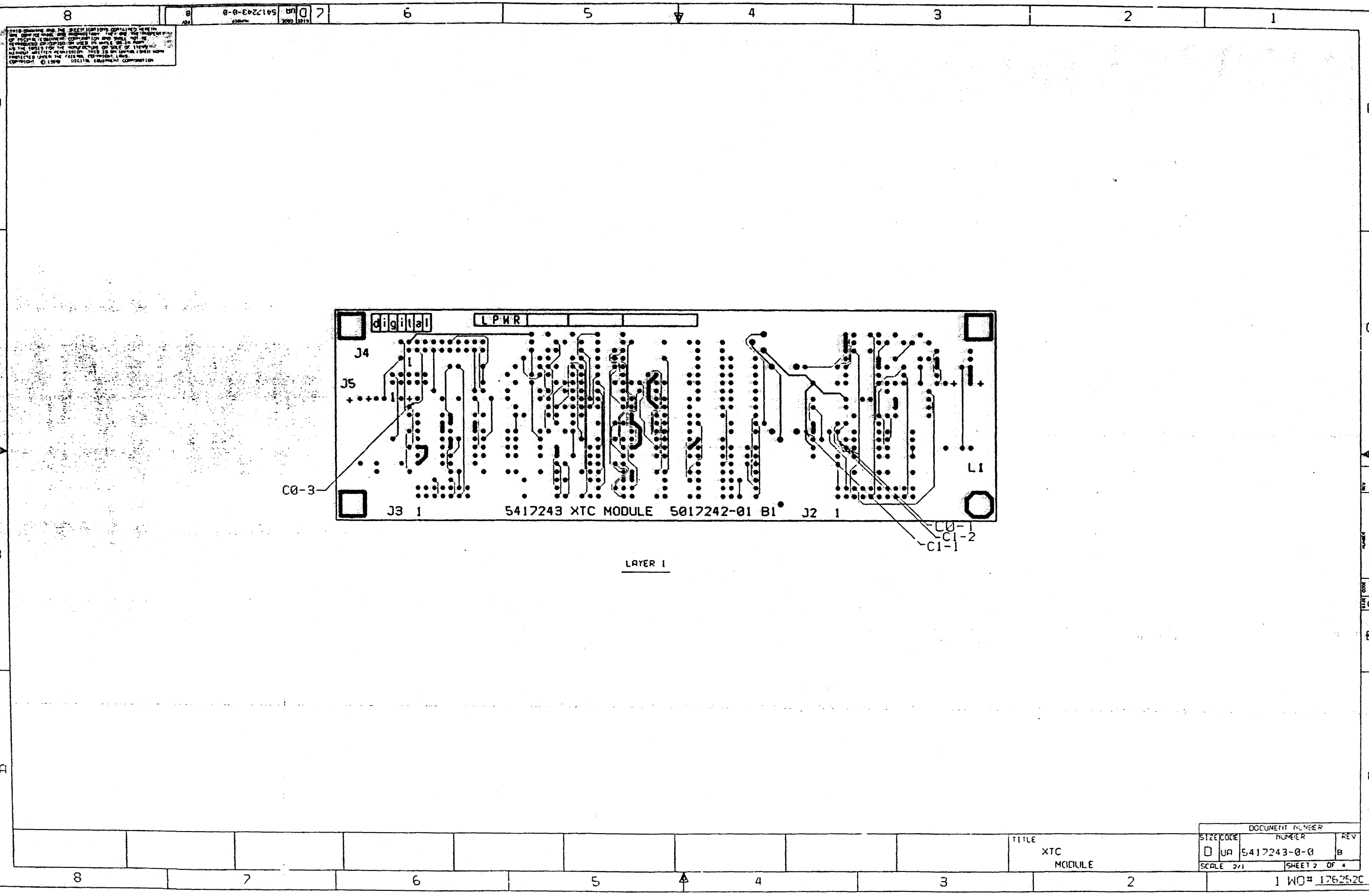
SCALE 2/1
 SHEET 1 OF 4
 TOP DOC NO K-00-541243-0-0

digital

TITLE XTC
MODULE

SIZE CODE 0 UR NUMBER 541243-0-0 REV B

ETCH REV B1



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REV B
5417243-0-0
UA

DOCUMENT NUMBER		
STOCK CODE	NUMBER	REV
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SCALE 2/1	SHEET 2 OF 4	

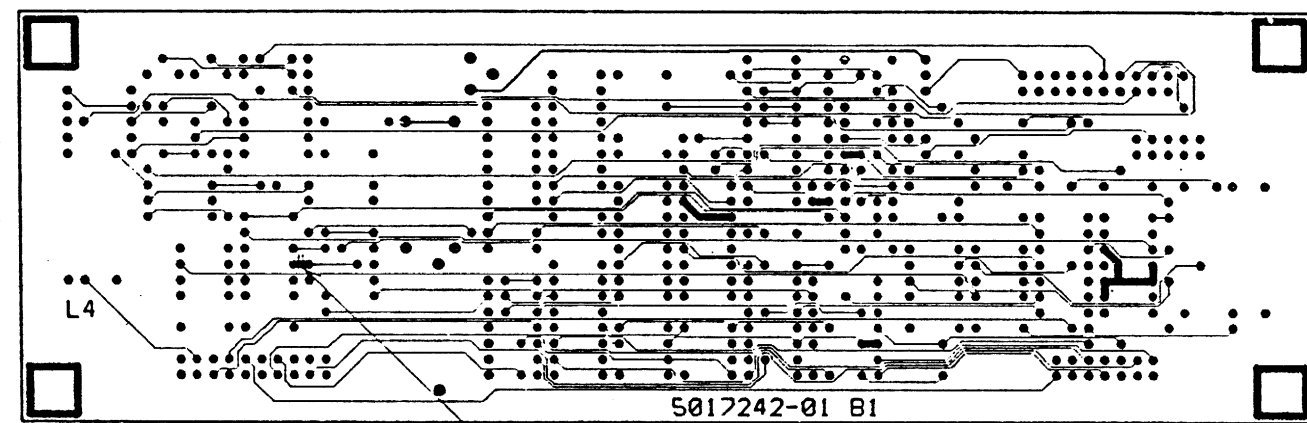
TITLE
XTC
MODULE

1 WO# 176252C

8 7 6 5 4 3 2 1

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VIEWED FROM SIDE 2



S017242-01 B1

LAYER 4

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INITIAL ETCH CUT INSTRUCTIONS:

- C0-1 CUT ETCH AWAY FROM E2 PIN 3
- C0-2 CUT ETCH AWAY FROM E2 PIN 2
- C0-3 ETCH CUT, CUT THE ETCH ON SIDE 1 BETWEEN PTH TO THE LEFT AND ABOVE E13 PIN 1 AND C10 PIN 1

INITIAL WIRE ADD REWORK INSTRUCTIONS:

- 0-1 ADD WIRE FROM D2.1 TO E2.3
- 0-2 ADD WIRE FROM R23.2 TO E2.2
- 0-3 ADD WIRE FROM E1.7 TO E4.1
- 0-4 ADD WIRE FROM E4.1 TO E4.2
- 0-5 ADD WIRE FROM E4.3 TO E4.4
- 0-6 ADD WIRE FROM E4.3 TO Z2.5
- 0-7 ADD WIRE FROM E4.5 TO PTH DIRECTLY TO THE LEFT OF Z1.4
- WIRE ADD SIDE 2
- 0-8 ADD WIRE FROM E4.6 TO J4.3

INITIAL COMPONENT REWORK INSTRUCTIONS:

- 0-9 ADD THE CAPACITOR C28 ON THE TOP OF E2, BETWEEN E2.2 AND E2.4.
- 0-10 ADD NEW IC (19-18868-00) TO SPARE LOCATION E4.
- 0-11 ADD R38 (13-00479-00) FROM E4.6 TO Q11 EMITTER, SLEEVE BOTH ENDS OF THE RESISTOR AND LAY IT BETWEEN E4 AND R30.
- 0-12 ADD A NEW C5 (10-00002-05). ADD THE CAP STANDING ON ONE END AND BEND AND SLEEVE THE OTHER ENDS WIRE DOWN INTO THE OTHER PTH FOR C5. THE POSITIVE END OF C5 GOES INTO C5.1. MAKE SURE TO OBSERVE POLARITY. (SEE NOTE 2 ON UA)
- 0-13 ADD DIODE D11 (11-17166-00) FROM R3.2 TO R3.1. MAKE SURE BANDED END OF DIODE GOES TO R3.1. PERFORM THE LEADS TO MAKE HOOKS AND THEN HOOK THE LEADS OF THE DIODE ONTO THE RESISTOR AND THEN SOLDER.

REWORK INSTRUCTIONS - EC001

ETCH CUTS:

- C1-1 CUT ETCH BETWEEN R4.1 AND C5.1.
- C1-2 CUT ETCH BETWEEN R4.2 AND C24.2.

WIRE ADDS:

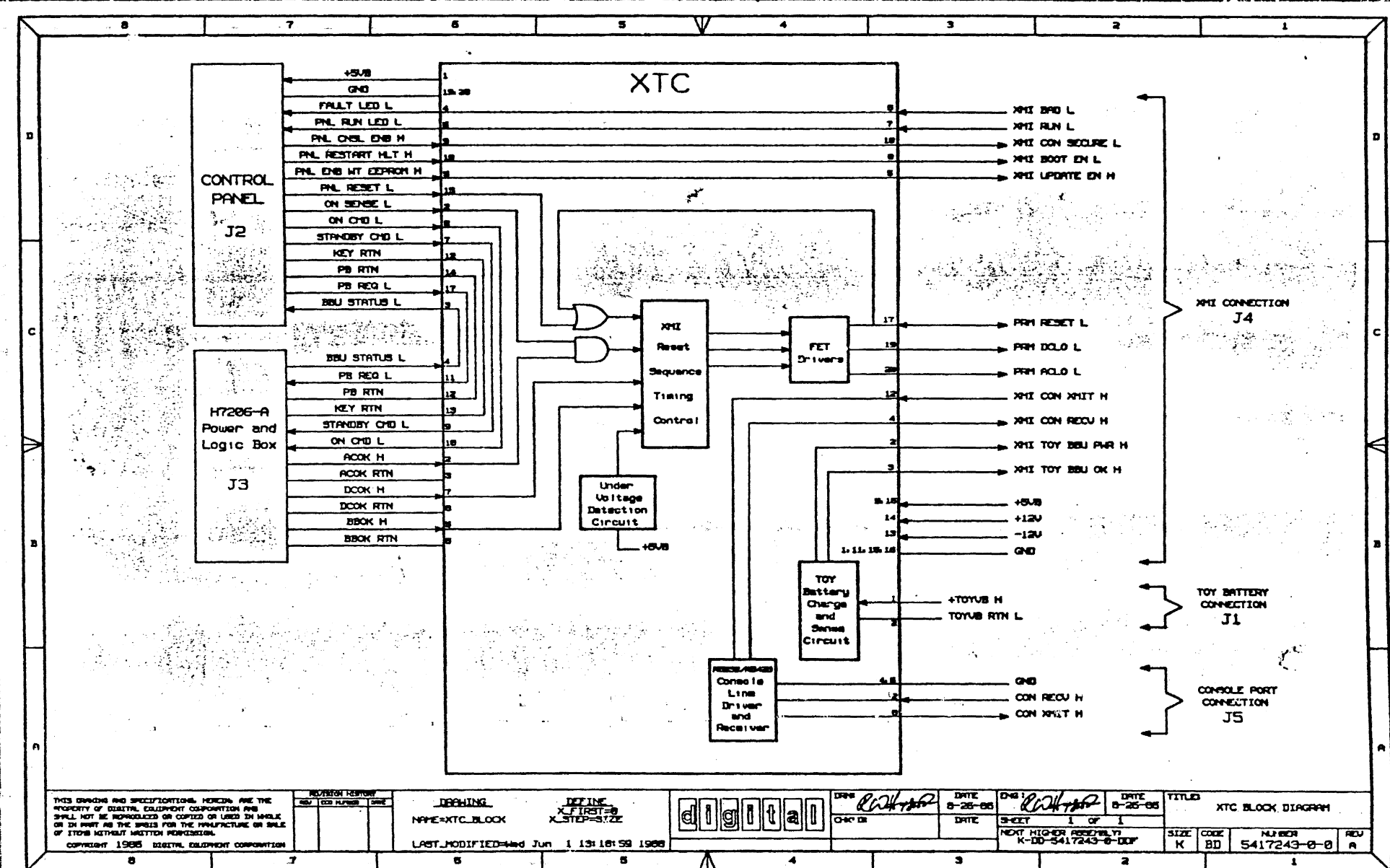
- 1-1 ADD WIRE FROM R4.1 TO D2.2.
- 1-2 ADD WIRE FROM R4.2 TO D2.1.

COMPONENT DELETES:

- 1-3 REMOVE RESISTOR, REFERENCE DESIGNATOR R29.

COMPONENT ADDS:

- 1-4 ADD RESISTOR (13-19221-01) TO LOCATION R29.
- 1-5 ADD RESISTOR (13-17403-00) TO LOCATION R4.

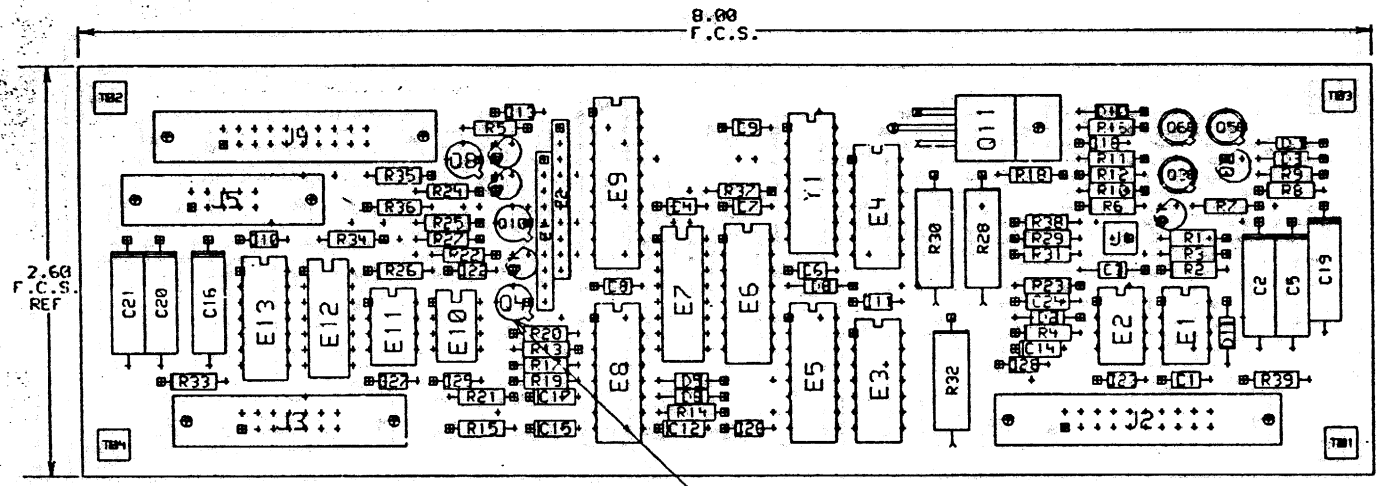
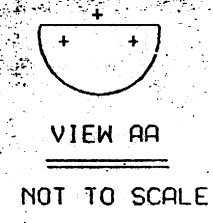


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DIGITAL		LAST MODIFIED: Wed Jun 1 13:18:59 1985	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY K-DD-5417243-0-00P	SIZE K	CODE BD	NUMBER 5417243-0-0

S 6 5 4 3 2 1

ALL DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED IN INCHES. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN MILLIMETERS ARE FOR INFORMATION ONLY. DIMENSIONS IN MILLIMETERS ARE FOR INFORMATION ONLY. DIMENSIONS IN MILLIMETERS ARE FOR INFORMATION ONLY.

VIEWED FROM SIDE 1



SEE NOTE 1

Last edited by CHKVUE::PVJEW 29-JUL-1988 Prev. file: D_LUA_5417243_1_0_A_1

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
TM	C. HARTEL	R. HAPGOOD	LN02	7/88	A

NOTES

- ITEM 35, 15-11686 MAY COME IN A T092 PLASTIC CASE SEE VIEW AA FOR BODY ORIENTATION OF 04, 08 AND 010.
- ADD BAR CODE AS REQ'D.
- SQUARE BLOCK INDICATES PIN 1.

SIGNATURES	DATE
DRAWN G. FRANCE SCHI	8-31-88
CHECKED E. T. GERRY	8-31-88
MECH ENG R. HAPGOOD	8-31-88
PROJ ENG R. HAPGOOD	8-31-88
PROD J. ASTONE	8-31-88

TITLE XTC		MODULE	
SCALE 2/1	SHEET 1 OF 2	SIZE CODE D UA	NUMBER 5417243-1-0
TOP DOC NO K-00-5417243-8-0		REV A	

ETCH REV. C1

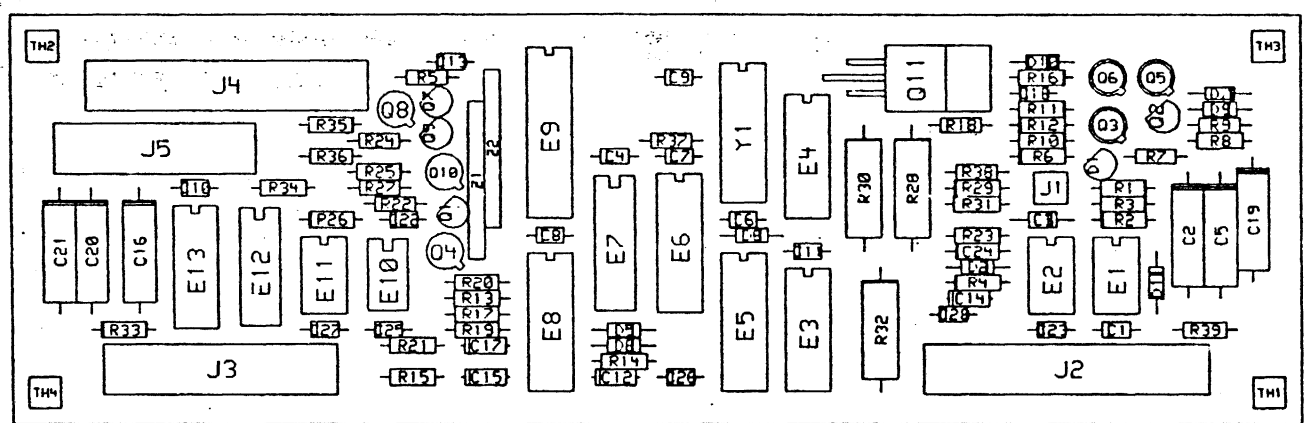
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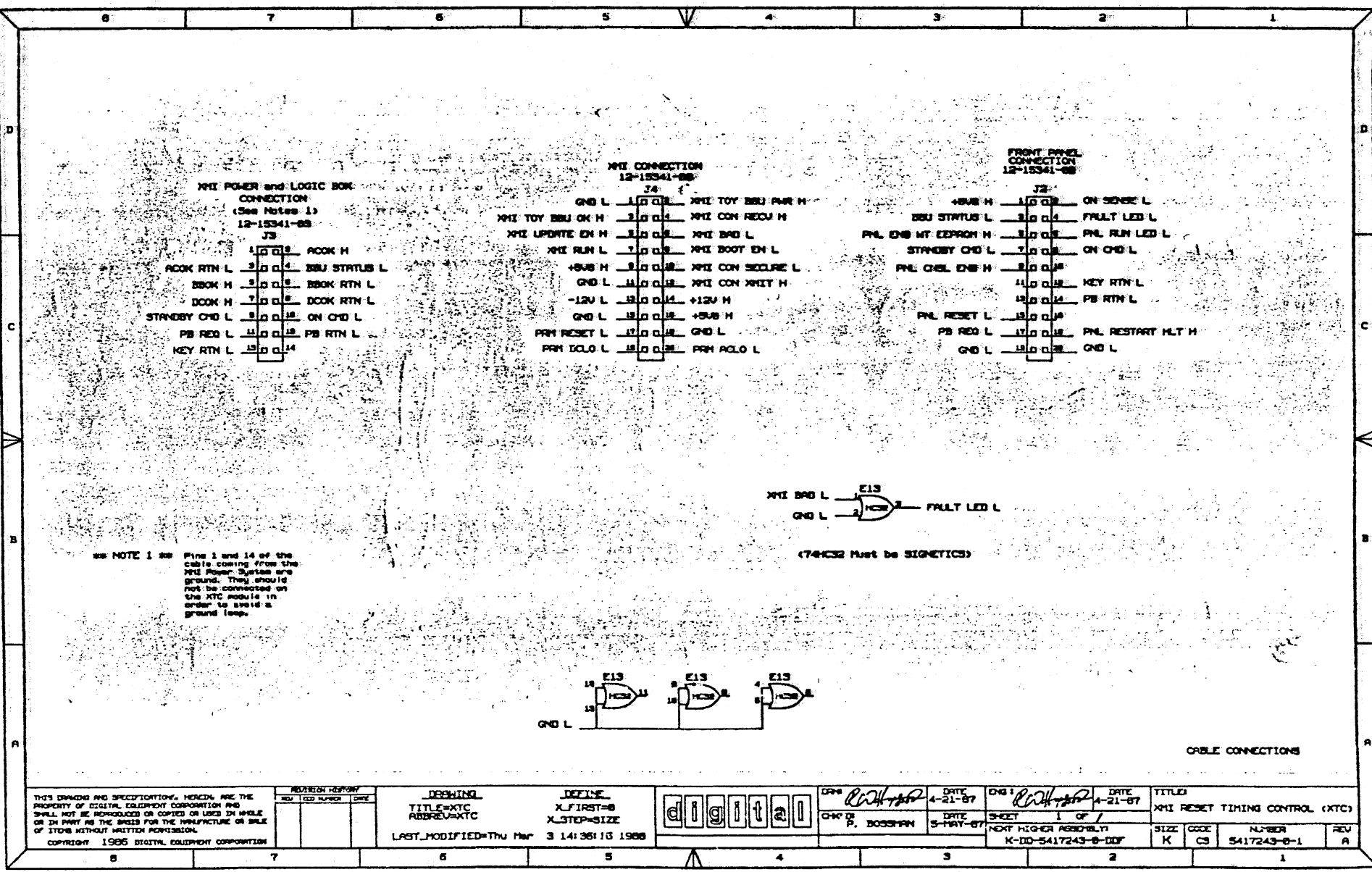
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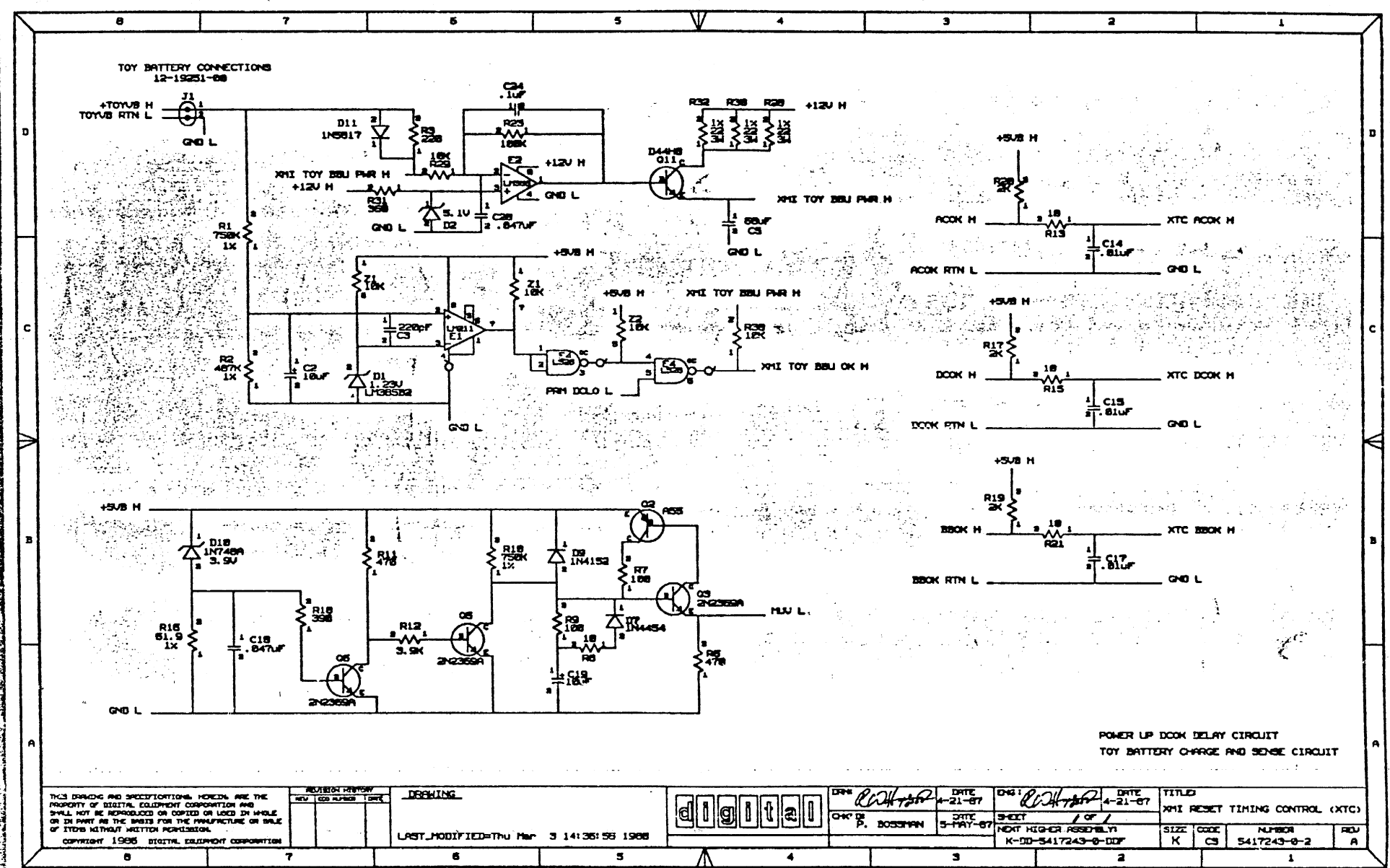




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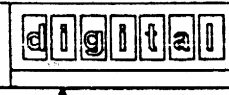
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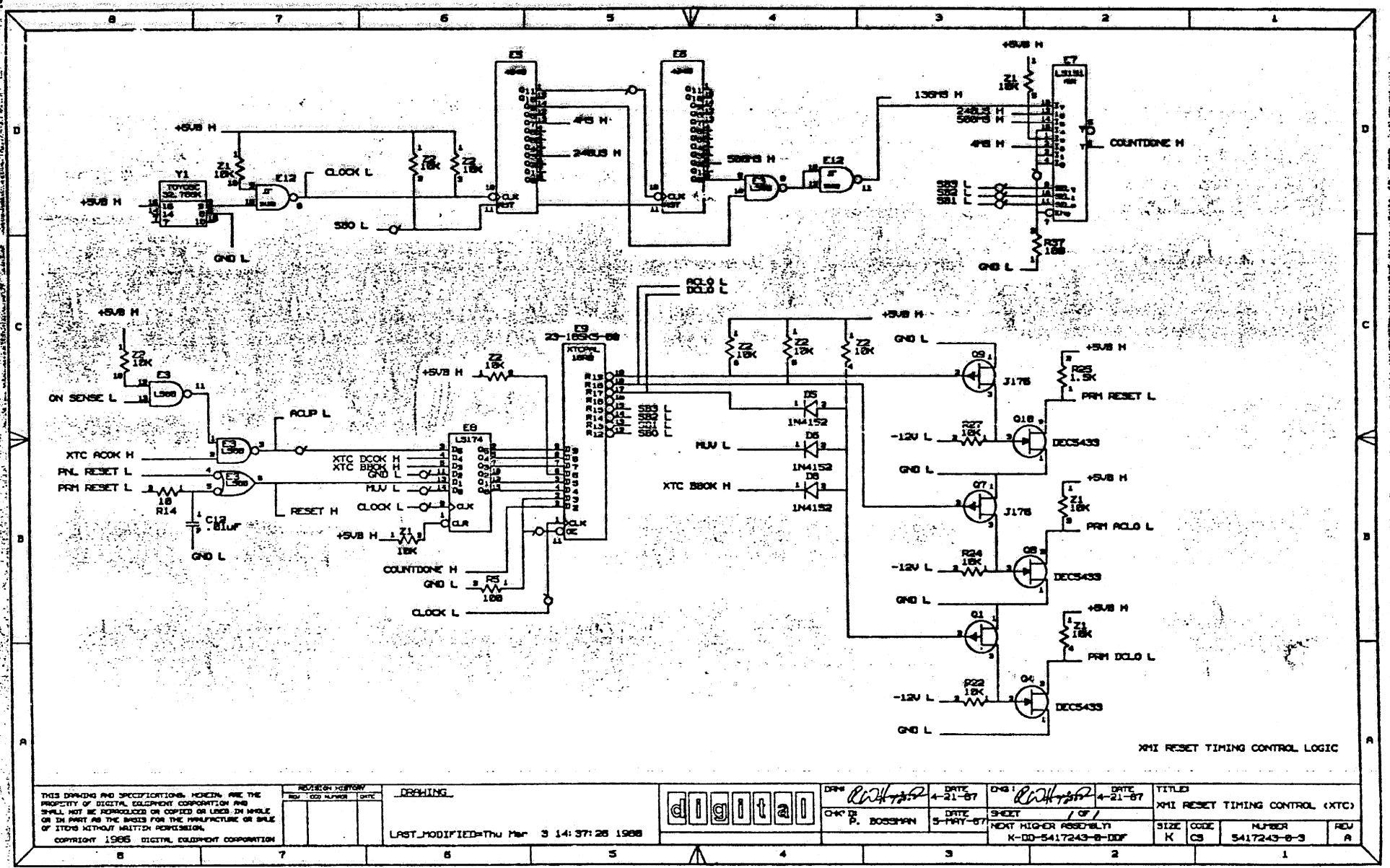
REVISION	DATE	BY	CHK'D	DATE	BY

DRAWING
 LAST MODIFIED-THU Mar 3 14:36:56 1968



DESIGNED BY <i>R. H. ...</i>	DATE 4-21-67	CHK'D BY P. BOSSMAN	DATE 5-MAY-67
DWG NO. <i>R. H. ...</i>	DATE 4-21-67	SHEET 3-OF-7	
NEXT HIGHER ASSEMBLY K-DD-5417243-0-DDF		SIZE K	CODE CS

TITLE XMI RESET TIMING CONTROL (XTC)	NUMBER 5417243-0-2	REV A
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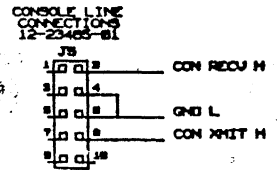
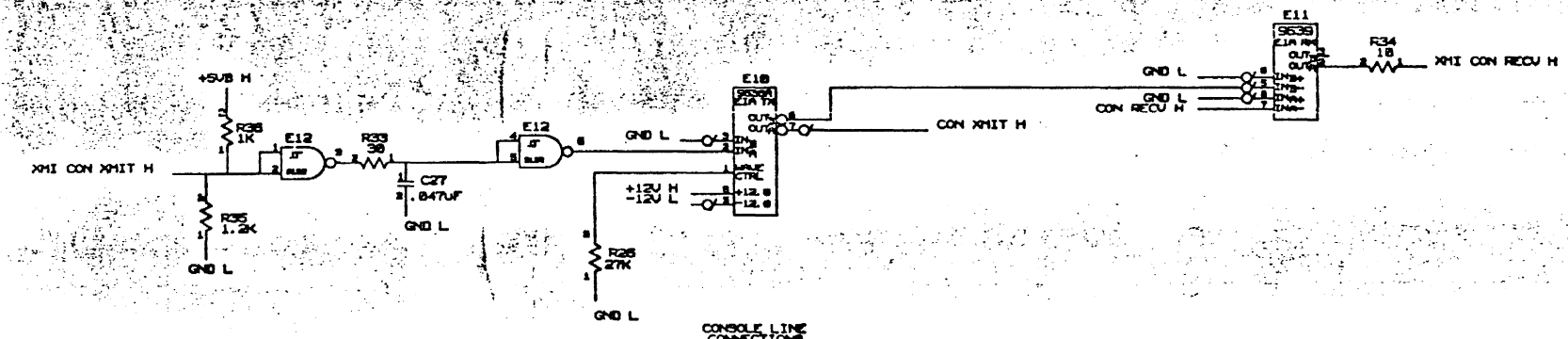
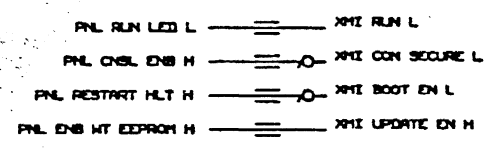
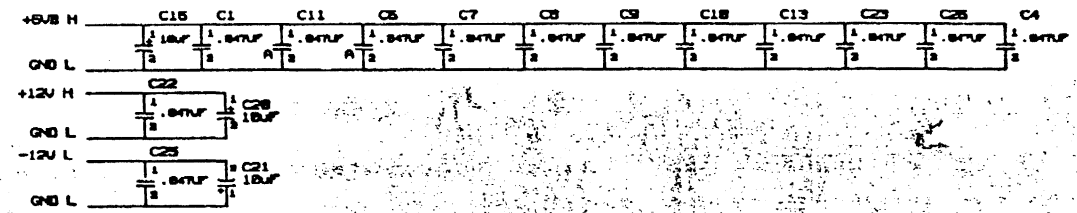
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REV.	ISS. NUMBER	DATE	

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digital

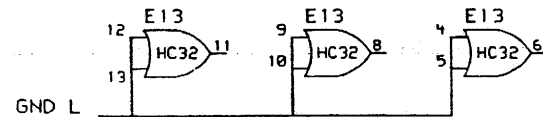
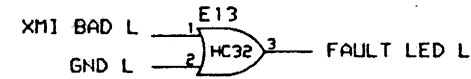
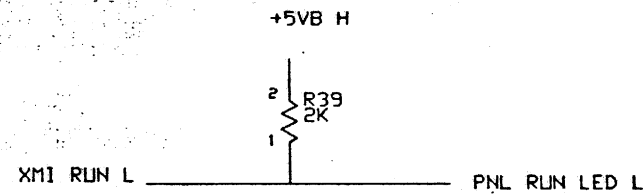
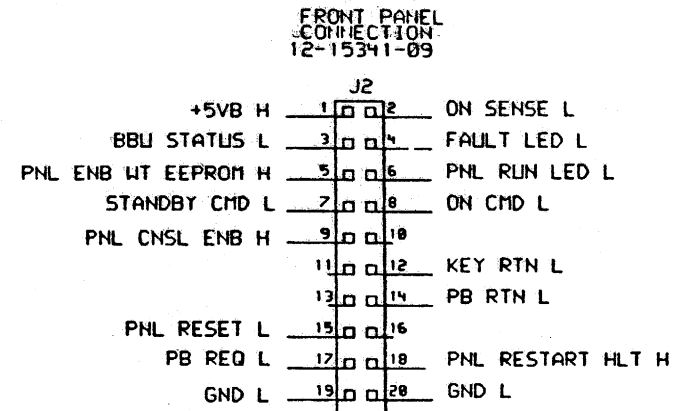
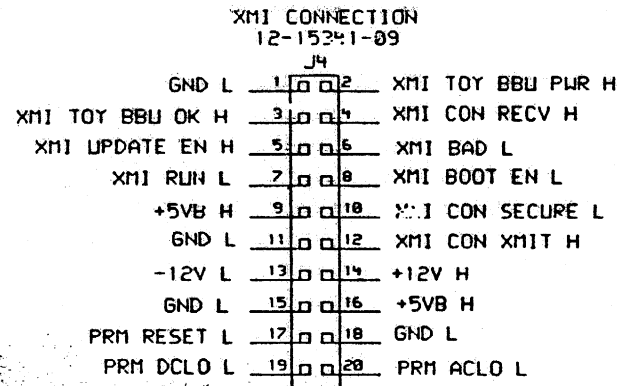
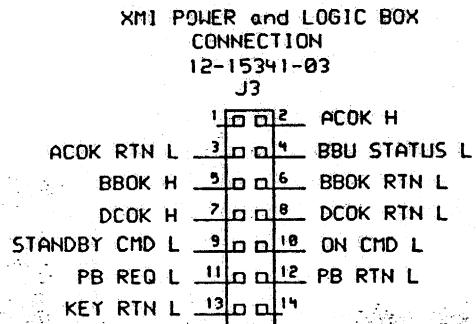
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CHK: P. BOSCHMAN	DATE: 5-17-67	SHEET: 1 OF 1	
		NEXT HIGHER ASSEMBLY:	
		K-DD-5417243-B-DDF	

TITLED			
XMI RESET TIMING CONTROL (XTC)			
SIZE	CODE	NUMBER	REV
K	CS	5417243-B-3	A



CONSOLE LOGIC
DECOUPLING

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REV	CD NUMBER	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	TITLE	
								4-21-87	4-21-87	XMI RESET TIMING CONTROL (XTC)	
								5-MAY-87			
LAST_MODIFIED=THU Mar 3 14:37:51 1988		DRAWN		P. BOSSMAN		CHECKED		NEXT HIGHER ASSY/PLT		SIZE CODE NUMBER REV	
								K-00-5417243-0-00F		K CS 5417243-0-4 A	



CABLE CONNECTIONS

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REVISION HISTORY		
REV	ECO NUMBER	DATE

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ABBREV=XTC
LAST_MODIFIED= Tue Jun 21 19:01:34 1988

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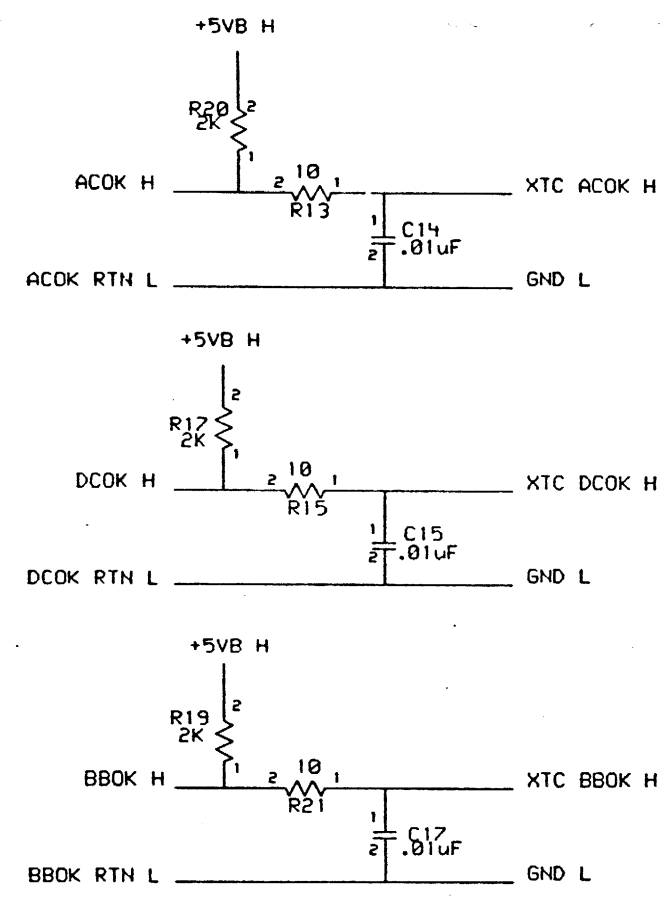
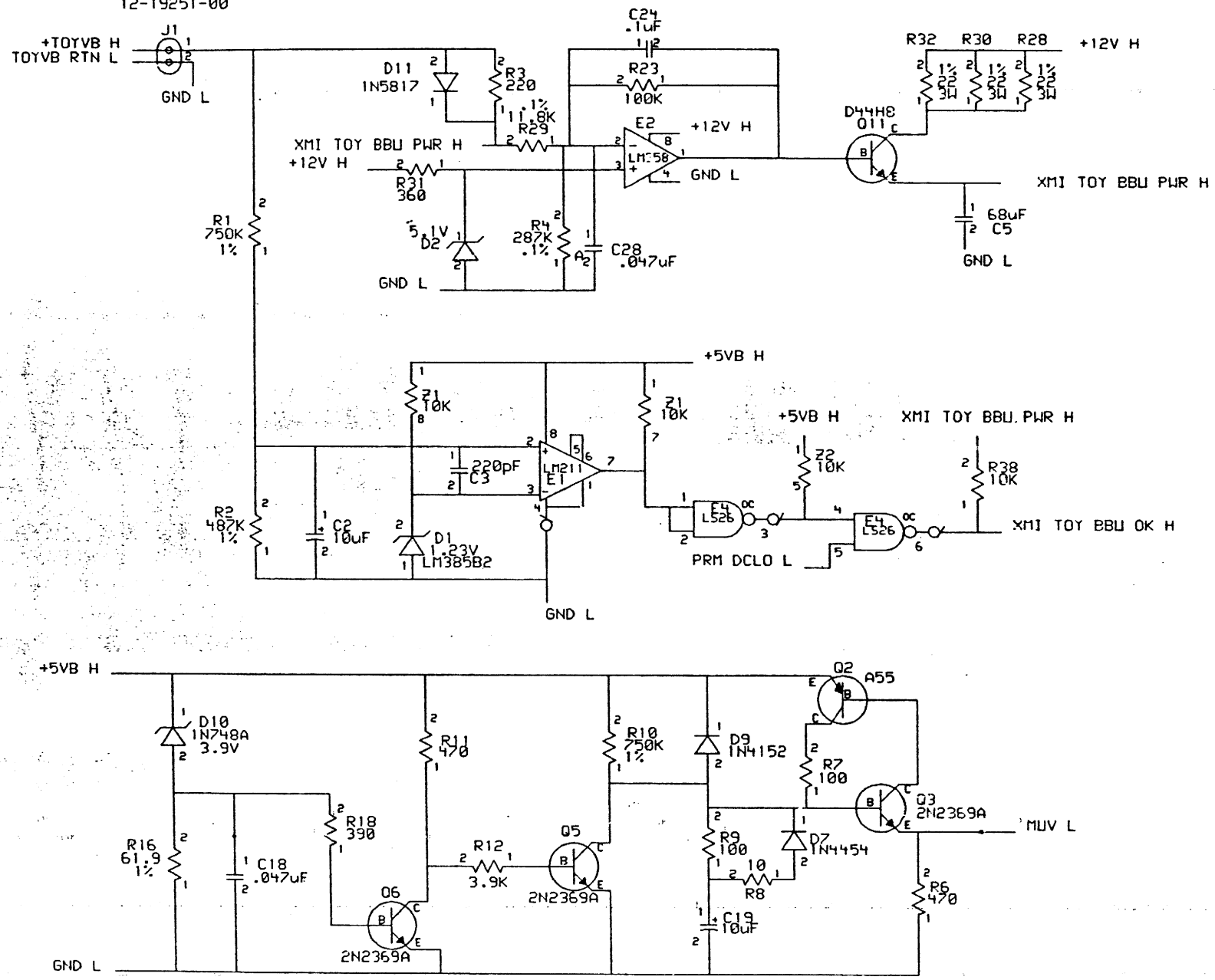


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CHK'D: DATE:

ENG: *[Signature]* DATE: 4-21-87
SHEET 1 OF 4
NEXT HIGHER ASSEMBLY: K-DD-5417243-0-DDF

TITLE: XMI RESET TIMING CONTROL (XTC)
SIZE: K CODE: CS NUMBER: 5417243-1-1 REV: A

TOY BATTERY CONNECTIONS
12-19251-00



POWER UP DCOK DELAY CIRCUIT
TOY BATTERY CHARGE AND SENSE CIRCUIT

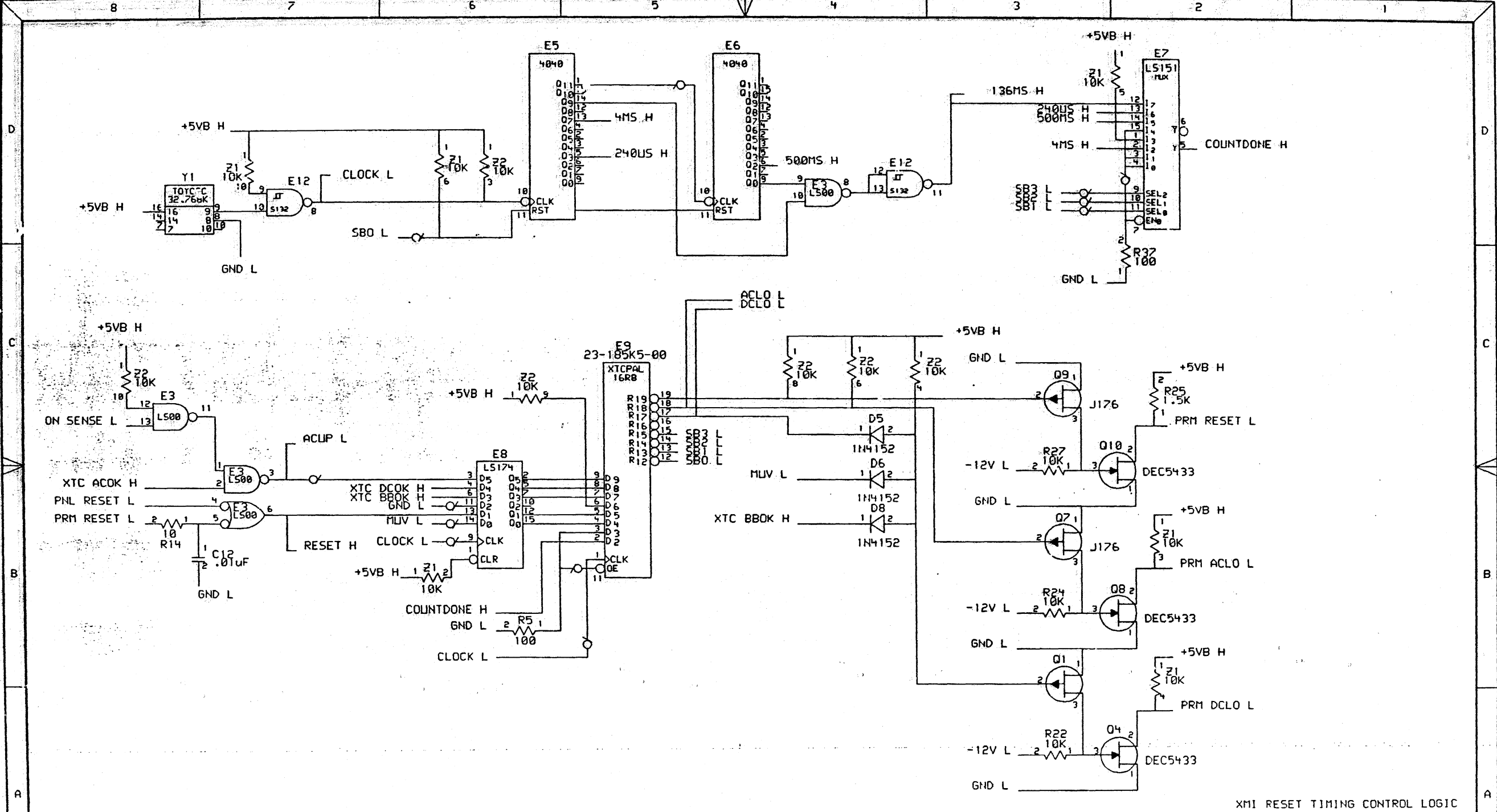
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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING
LAST_MODIFIED=Tue Jun 21 19:04:14 1988



DRN: <i>RWH/...</i>	DATE: 4-21-87	ENG: <i>RWH/...</i>	DATE: 4-21-87	TITLE: XMI RESET TIMING CONTROL (XTC)
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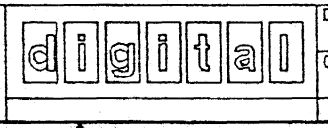


XMI RESET TIMING CONTROL LOGIC

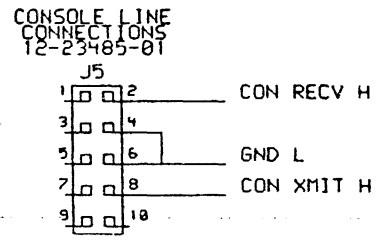
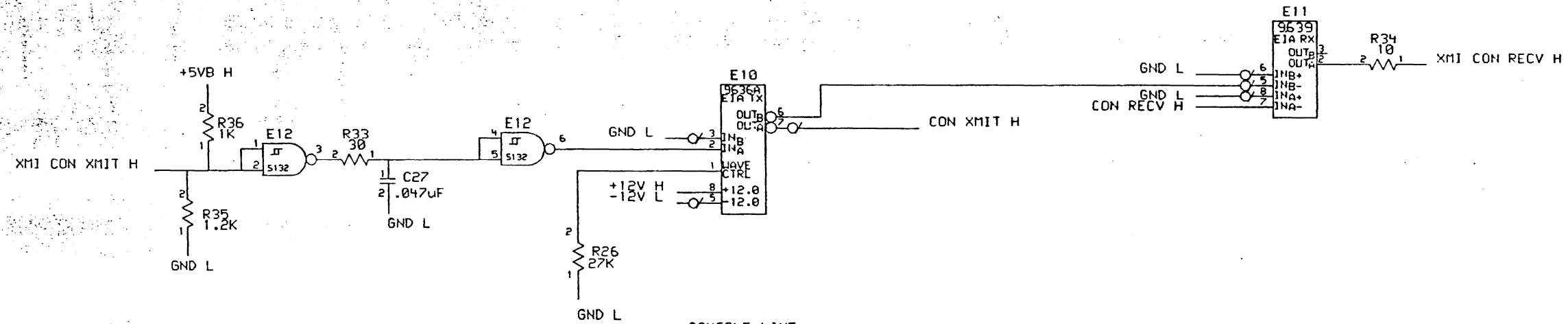
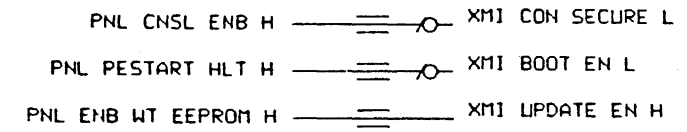
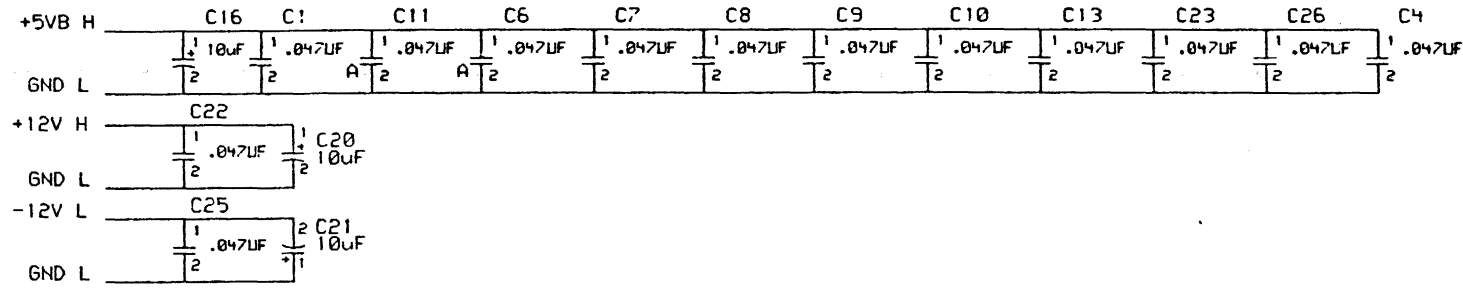
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REVISION HISTORY		
REV	ECD NUMBER	DATE

DRAWING
 LAST_MODIFIED= Tue Jun 21 19:02:07 1988



DRN: <i>RLW</i>	DATE: 4-21-87	ENG: <i>RLW</i>	DATE: 4-21-87	TITLE: XMI RESET TIMING CONTROL (XTC)
CHK'D:	DATE:	SHEET 3 OF 4	NEXT HIGHER ASSEMBLY: K-DD-5417243-0-DDF	SIZE: K
				CODE: CS
				NUMBER: 5417243-1-3
				REV: A

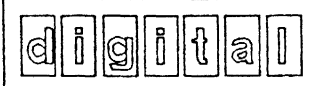


CONSOLE LOGIC
DECOUPLING

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REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING
LAST_MODIFIED= Tue Jun 21 19:02:22 1988



DRN: *RLW* DATE: 4-21-87
CHK'D: DATE:

ENG: *RLW* DATE: 4-21-87
SHEET 4 OF 4

TITLE: XMI RESET TIMING CONTROL (XTC)
NEXT HIGHER ASSEMBLY: K-DD-5417243-0-DDF
SIZE: K CODE: CS NUMBER: 5417243-1-4 REV: A

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
					01 H1	
1	K-DD-5017242-0-DDF	50-17242-01		CIRCUIT DRILL AND ETCH	1	
2		10-04813-00		10 MFD 20V +/-10% 50L	5	C2,C16,C19-C21
3		10-12734-00		0.047MFD 50V +80/-20% Z5U C	16	C1,C4,C6-C11,C13,C18,C22,C23, CONT C25-C28
4		10-13466-22		0.10 MFD 50V +80/-20% Z5U C	1	C24
5		10-13466-16		0.010MFD 50V +/-10% X7R C	4	C12,C14,C15,C17
6		10-13466-45		220 PFD 50V +/- 1% NPO C	1	C3
7		11-00122-00		VZ= 3.9 50 400 MW IN748A	1	D10
8		11-05873-00		VZ= 5.1 1% 400MW	1	D2
9		11-11577-00		PIV= 50 IO=200 MA - 4NS IN4454	1	D7
10		11-14117-00		PIV= 40 IO= 75 A -4NS IN4152	4	D5,D6,D8,D9
11		12-19251-00		PCB HEADER 02PIN(1X02).100CC STR	1	J1
12		12-15341-09		PCB HEADER 20PIN(2X10).100CC STR	2	J2,J4
13		12-23485-01		PCB HEADER 10PIN(2X05).100CC STR	1	J5
14		12-15341-03		PCB HEADER 14PIN(2X07).100CC STR	1	J3
15		13-00229-00		100.0 .25 W 5.0 % CF	4	R5,R7,R9,R37
16		13-00271-00		220.0 .25 W 5.0 % CF	1	R3
17		13-00309-00		390.0 .25 W 5.0 % CF	1	R18
18		13-00316-00		470.0 .25 W 5.0 % CF	2	R6,R11
19		13-00365-00		1.0 K .25 W 5.0 % CF	1	R36
20		13-00391-00		1.50 K .25 W 5.0 % CF	1	R25
21		13-00444-00		3.90 K .25 W 5.0 % CF	1	R12
22		13-00479-00		10.0 K .25 W 5.0 % CF	4	R22,R24,R27,R38
23		13-01317-00		10.0 .25 W 5.0 % CF	6	R8,R13-R15,R21,R34
24		13-01320-00		1.20 K .25 W 5.0 % CF	1	R35
25		13-02388-00		2.0 K .25 W 5.0 % CF	3	R17,R19,R20
26		13-02466-00		100.0 K .25 W 5.0 % CF	1	R23
27		13-02751-00		30.0 .25 W 5.0 % CF	1	R33
28		13-03136-00		61.90 .25 W 1.0 % RN55D-F10	1	R16
29		13-05346-00		27.0 K .25 W 5.0 % CF	1	R26

REVISION HISTORY			KPL MODULE FORMAT SECTION A OF A		DRN: G. STRYKER	DIGITAL					
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 06-JUN-88						
RH	LTN01	B	(A)	01	(M)	CHK'D: T. MCCULLOUGH	TITLE PARTS LIST				
			(B)		(N)	DATE: 06-JUN-88	XTC MODULE				
			(C)		(P)	DES.ENG: R.HAPGOOD					
			(D)		(O)	DATE: 06-JUN-88	DOCUMENT NUMBER				
			(E)		(R)		SIZE	CODE	NUMBER	REV	
			(F)		(S)	RESP.ENG: R.HAPGOOD					
			(H)		(T)	DATE: 06-JUN-88	K	PL	5417243-0-DEP	B	
			(J)		(V)		RELEASE DATE: 17-JUN-88				
			(K)		(W)	MFG.ENG: E.BLAIR	RELEASE STATUS: RELEASED				
			(L)		(Y)	DATE: 06-JUN-88					
			BASIC PART NUMBER:		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:			EDIT #		
			5417243		D-UA-5417243-0-0	K-DD-5417243-0-0			31		
			FILE NAME: 5417243H1.PLS								

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						01 H1	
30	30		13-11738-02	22.0	3.0 W 1.0 % WW	3	R28,R30,R32
31	31		13-16334-02		R. NET 10.0K- 9 2.0	2	Z1,Z2
32	32		13-19610-01	750.0	K .25 W 0.1 % RN55E-B 2	2	R1,R10
33	33		13-19645-01	487.0	K .25 W 0.1 % RN55E-B 2	1	R2
34	34		15-10707-02	D	44H3 NPN 25W SI 60@2A	1	011
35	35		15-11686-00	DEC5433	FET N 350MW 10 25 1A	3	04,08,010
36	36		15-17551-00	J	176 FET 350MW SI P CHNNL	2	07,09
37	37		15-17551-01		FET 350MW P CHANNEL	1	01
38	38		15-21002-01	2N 2369A	NPN 200MA 15V TO-18	3	03,05,06
39	39		18-18300-02		OSCILLATOR,XTAL 32.768KHZ	1	Y1
40	40		19-12697-00		LS174 FF-D HEX W/CLEAR	1	E8
41	41		19-12799-00		LS00 NAND-GATE-QUAD 2IN,P	1	E3
42	42				*** THIS ITEM IS NOT USED ***	-	
43	43		19-12844-00		LS151 MUX 1 OF 8 & DATA	1	E7
44	44		19-14140-01	LM	211P COMPARATOR,VOLTAGE	1	E1
45	45		19-14558-00	SN	74S132N NAND GATE QUAD 2IN P	1	E12
46	46		19-15415-00		9636 DRIVER,DUAL,EIA RS-4	1	E10
47	47		19-17908-00	LM	358N OP AMP DUAL LOW POWE	1	E2
48	48		19-19542-01		9639 RECEIVER,LINE,DUAL	1	E11
49	49		19-19684-01	LM	385B2 PREC VOLT REF. 1.23	1	D1
50	50		21-14462-00		4040B COUNTER/DIVIDER,BINA	2	E5,E6
51	51		21-26169-02		74HC32 QUAD 2-INPUT OR GATE	1	E13
52	52		23-185K5-00	K5-01	PAL	1	E9
53	53		15-10706-00	XA	55 PNP 500MW SI 60 50 P	1	Q2
54	54		13-13580-00	360.0	.25 W 5.0 % CF	1	R31
55	55		10-00002-05	68	MFD 10V +/-10% SOL	1	C5
56	56		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	
57	57		19-18868-00		LS26 NAND GATE,2-IN,HIGH	1	E4
58	58		11-17166-00	PIV=	20 IO= 1.00A DO-35	1	D11
59	59		13-19221-01	11.80	K .25 W 0.1 % RN55E-B 2	1	R29
60	60		13-17403-00	287.0	K .25 W 0.1 % RN55E-B 2	1	R4

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							XTC MODULE		k	PL	5417243-0-DEP	E

DOC_NUMBER=K-IF-5417243-1-0

D-UA-5417243-1-0-A-1.PLO
 D-UA-5417243-1-0-A-2.PLO
 K-BD-5417243-0-1-1.PLO
 K-BD-5417243-0-1-1.VC1
 K-CS-5417243-1-1-1.PLO
 K-CS-5417243-1-1-1.VC1
 K-CS-5417243-1-1-2.PLO
 K-CS-5417243-1-1-2.VC1
 K-CS-5417243-1-1-3.PLO
 K-CS-5417243-1-1-3.VC1
 K-CS-5417243-1-1-4.PLO
 K-CS-5417243-1-1-4.VC1
 K-DD-5417243-0-0-C-1.PLO
 K-DD-5417243-0-0-C-2.PLO
 K-IF-5417243-1-0-A-1.PLO
 K-PL-5417243-1-0-A-1.PLO
 K-PL-5417243-1-0-A-2.PLO
 K-ST-5417243-1-0-A-1.PLO

Last edited by CHKVUE::PVIEW 26-JUL-1988 Prev. file: K-IF-5417243-1-0-A-1

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digital

TOP_DOCUMENT=K-DD-5417243-0-0
 ENG=R. HAPGOOD
 LAST_MODIFIED=7/88

TITLE:PLO DATA INDEX
 COMMENT=DATA INDEX
 DESIGN_OBJECT=XTC

ABBREV=XTC

REVISION=

SHEET=1 OF 1

DOC_NUMBER=K-IF-5417243-1-0

DOC_REV A

DOC_NUMBER=K-ST-5417243-1-0

5417243_00_J1_XREF.DAT
5417243_01_J01_DES_ENG.ADS_FULLL
5417243_01_J01_PDF104.PDF

Last edited by DUBLIN:PVIEW 26-SEP-1988 Prev. file: K-ST-5417243-1-0-A-1

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digital

TOP_DOCUMENT=K-DD-5417243-0-0
ENG=R. HAPGOOD
LAST_MODIFIED=7/88

TITLE: BUILD DATA INDEX
COMMENT=DATA INDEX
DESIGN_OBJECT=XTC

ABBREV=XTC

REVISION=

SHEET=1 OF 1

DOC_NUMBER=K-ST-5417243-1-0

DOC_REV A

AUTOMATED BY VAXKPL (V2.0)

PARTS LIST

SHEET A1 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	K-DD-5017242-0-0	50-17242-01		CIRCUIT DRILL AND ETCH	1	
2	2		10-04813-00	10	MFD 20V +/-10% SOL	5	C2,C16,C19-C21
3	3		10-12784-00		0.047MFD 50V +80/-20% Z5U C	16	C1,C4,C6-C11,C13,C18,C22,C23, CONT C25-C28
4	4		10-13466-22		0.10 MFD 50V +80/-20% Z5U C	4	C24
5	5		10-13466-16		0.010MFD 50V +/-10% X7R C	4	C12,C14,C15,C17
6	6		10-13466-45	220	PFD 50V +/- 1% NPO C	1	C3
7	7		11-00122-00		VZ= 3.9 5% 400 MW 1N748A	1	D10
8	8		11-05873-00		VZ= 5.1 1% 400MW	1	D2
9	9		11-11577-00		PIV= 50 I0=200 MA - 4NS 1N4454	1	D7
10	10		11-14117-00		PIV= 40 I0= 75 A -4NS 1N4152	4	D5,D6,D8,D9
11	11		12-19251-03		PCB HEADER 02PIN(1X02).100CC STR	1	J1
12	12		12-15341-09		PCB HEADER 20PIN(2X10).100CC STR	2	J2,J4
13	13		12-23485-01		PCB HEADER 10PIN(2X05).100CC STR	1	J5
14	14		12-15341-03		PCB HEADER 14PIN(2X07).100CC STR	1	J3
15	15		13-00229-00		100.0 .25 W 5.0 % CF	4	R5,R7,R9,R37
16	16		13-00271-00		220.0 .25 W 5.0 % CF	1	R3
17	17		13-00309-00		390.0 .25 W 5.0 % CF	1	R18
18	18		13-00316-00		470.0 .25 W 5.0 % CF	2	R6,R11
19	19		13-00365-00		1.0 K .25 W 5.0 % CF	1	R36
20	20		13-00391-00		1.50 K .25 W 5.0 % CF	1	R25
21	21		13-00444-00		3.90 K .25 W 5.0 % CF	1	R12
22	22		13-00479-00		10.0 K .25 W 5.0 % CF	4	R22,R24,R27,R38
23	23		13-01317-00		10.0 .25 W 5.0 % CF	6	R8,R13-R15,R21,R34
24	24		13-01320-00		1.20 K .25 W 5.0 % CF	1	R35
25	25		13-02388-00		2.0 K .25 W 5.0 % CF	4	R17,R19,R20,R39
26	26		13-02466-00		100.0 K .25 W 5.0 % CF	1	R23
27	27		13-02751-00		30.0 .25 W 5.0 % CF	1	R33
28	28		13-03136-00		61.90 .25 W 1.0 % RN55D-F10	1	R16
29	29		13-05346-00		27.0 K .25 W 5.0 % CF	1	R26

REVISION HISTORY		KPL MODULE FORMAT SECTION A OF A		DRN: G. STRYKER	DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE: 29-JUL-88	TITLE PARTS LIST		
RH	LTN02	A	[A] 01 [M] [B] [N] [C] [P] [D] [Q] [E] [R] [F] [S] [H] [T] [J] [V] [K] [W] [L] [Y]	CHK'D: T. MCCULLOUGH DATE: 29-JUL-88	XTC MODULE		
				DES.ENG: R. HAPGOOD DATE: 29-JUL-88	DOCUMENT NUMBER		
				RESP.ENG.: R. HAPGOOD DATE: 29-JUL-88	SIZE: K	CODE: PL	NUMBER: 5417243-1-DBP
				MFG.ENG: G. VICKS DATE: 29-JUL-88	RELEASE DATE: RELEASE STATUS: UNDER CHANGE		
			BASIC PART NUMBER: 5417243	ASSEMBLY NUMBER: D-UA-5417243-1-0	TOP DOCUMENT NUMBER: K-DD-5417243-0-0	EDIT #: 47	
			FILE NAME: 5417243J1.PLS				

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PARTS LIST

SHEET A2 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
30	30		13-11738-02	22.0	3.0 W 1.0 % WW	3	R28,R30,R32
31	31		13-16334-02		R. NET 10.0K- 9 2.0	2	Z1,Z2
32	32		13-19610-01	750.0	K .25 W 0.1 % RN55E-R 2	2	R1,R10
33	33		13-19645-01	487.0	K .25 W 0.1 % RN55E-B 2	1	R2
34	34		15-10707-02	D	44H8 NPN 25W SI 60@2A	1	Q11
35	35		15-11686-00	DEC5433	FET N 350MW 10 25 1A	3	Q4,Q8,Q10
36	36		15-17551-00	J	176 FET 350MW SI P CHNNL	2	Q7,Q9
37	37		15-17551-01		FET 350MW P CHANNEL	1	Q1
38	38		15-21002-01	2N 2369A	NPN 200MA 15V TO-18	3	Q3,Q5,Q6
39	39		18-18800-02		OSCILLATOR,XTAL 32.768KHZ	1	Y1
40	40		19-12697-00		LS174 FF-D HEX W/CLEAR	1	E8
41	41		19-12799-00		LS00 NAND-GATE-QUAD 2IN,P	1	E3
42	42				*** THIS ITEM IS NOT USED ***	-	
43	43		19-12844-00		LS151 MUX 1 Of 8 & DATA	1	E7
44	44		19-14140-01	LM	211P COMPARATOR,VOLTAGE	1	E1
45	45		19-14558-00	SN	74S132N NAND GATE QUAD 2IN P	1	E12
46	46		19-15415-00		9636 DRIVER,DUAL,EIA RS-4	1	E10
47	47		19-17908-00	LM	359N OP AMP DUAL LOW POWE	1	E2
48	48		19-19542-01		9639 RECEIVER,LINE,DUAL	1	E11
49	49		19-19684-01	LM	385B2 PREC VOLT REF. 1.23	1	D1
50	50		21-14462-00		4040B COUNTER/DIVIDER,BINA	2	E5,E6
51	51		21-26169-02		74HC32 QUAD 2-INPUT OR GATE	1	E13
52	52		23-185K5-00	K5-01	PAL	1	E9
53	53		15-10706-00	XA	55 PNP 500MW SI 60 50 P	1	Q2
54	54		13-13580-00	360.0	.25 W 5.0 % CF	1	R31
55	55		10-00002-05	68	MFD 10V +/-10% SOL	1	C5
56	56		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	
57	57		19-18868-00		LS26 NAND GATE,2-IN,HIGH	1	E4
58	58		11-17166-00	PIV= 20	I0= 1.00A D0-35	1	D11
59	59		13-19221-01	11.80	K .25 W 0.1 % RN55E-B 2	1	R29
60	60		13-17403-00	287.0	K .25 W 0.1 % RN55E-B 2	1	R4

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							XTC MODULE		K	PL	5417243-1-DBP	A

DRAWING NO.	NO. SHYS	PART NO.	DESCRIPTION	REVISIONS
B-UA-5416574-0-0	1	5416574-01	SCORPIO CONTROL PANEL	A1 A2 A3 B1 B2 B3 -
B-CS-5416574-0-1	2		SCORPIO CONTROL PANEL	A A B B B B B
K-PL-5416574-0-DBP	1		SCORPIO CONTROL PANEL	A B C - - D E
K-PC-5416574-0-DBA	-		P.C. DESIGN DATA BASE	A A A A A A A
K-PL-5416574-1-DBP	1		SCORPIO CONTROL PANEL	- - - A - - -
B-DB-5016573-0-0	1	5016573-01	DRAWING DIRECTORY	A A A A A A A
			ETCHED CIRCUIT BOARD	C1 C1 C1 C1 C1 C1 C1
K-PL-5416574-2-DBP	1	5416574-02	SCORPIO CONTROL PANEL	- - - - A - -
			SCORPIO CONTROL PANEL	- - - - - A1

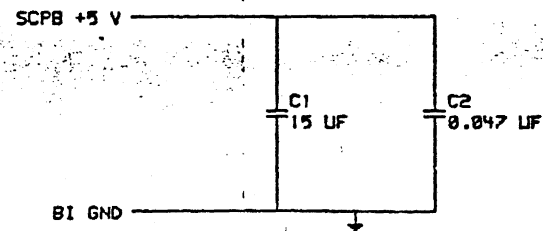
NOTES:

REV	A	B	C	D	E
REV					
REVISION	I	T	T	L	L
NO	W	W	W	K	K
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	0	0	0	0	0
	1	2	3	3	4
D	1	0	1	1	1
A	2	1	0	0	0
T	/	/	/	/	/
E	8	8	8	8	8
	4	6	6	6	7

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	CHK'D: D. BARRIERER	DATE: 11-DEC-84	TITLE SCORPIO CONTROL PANEL		
	DES. ENG.: M.G. EARLE	DATE: 11-DEC-84	SHEET 1 OF 1	EDITS 3	
	RESP. ENG.: M.G. EARLE <i>G. Earle 10 Aug 87</i>	DATE: 11-DEC-84	DOCUMENT NUMBER DD FILENAME: 5416574E.DDP		
	MFG. ENG.: T. FLYNN	DATE: 11-DEC-84	SIZE: K	CODE: DD	NUMBER: 5416574-0-DBP

SWITCH TABLES

POS.	S1A		S1B		S1C		POSITION FUNCTION	S2		POSITION FUNCTION
	COMM	CONNECTS	COMM	CONNECTS	COMM	CONNECTS		COMM	CONNECTS	
1	1	1	7	7	10	9	OFF	4	1	UPDATE
2	1	3	7	8	10	2	STANDBY	4	2	HALT EN
3	1	5	7	9	10	2,4	ENABLED	4	3	RESTART EN
4	1	6	7	11	10	2,4	SECURE	NOT USED		



3RD PASS ETCH

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REVISION HISTORY		
REV	TECH NUMBER	DATE
1	54-16574-TW-10	1-28-84
2	1-28-84	
3	1-28-84	

digital

DRN: M. RENDA
CHK'D:

DATE 11-30-84

ENG: M. PETERS

DATE 7-27-84

SHEET 1 OF 2

SIZE D

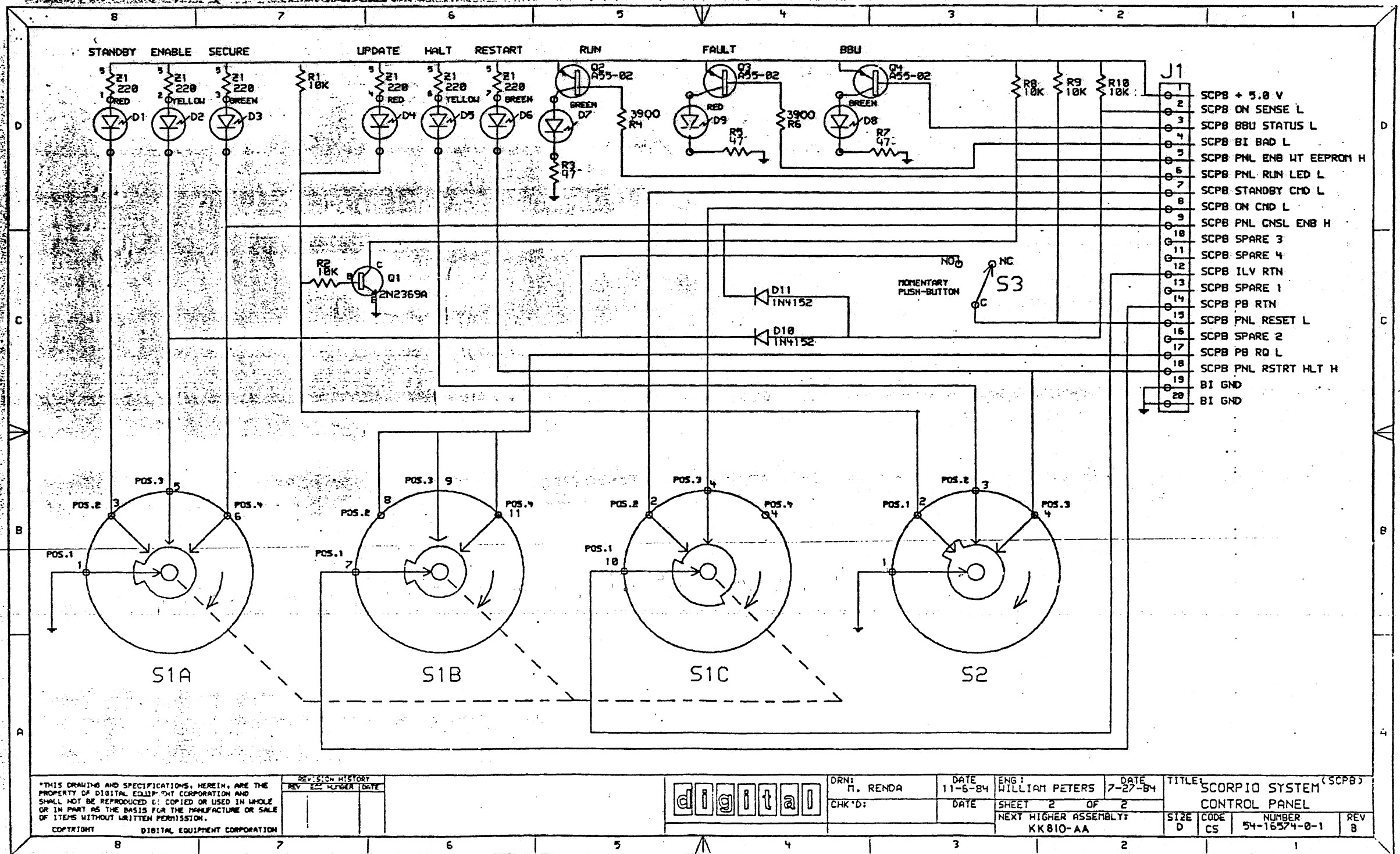
CODE CS

NUMBER 54-16574-0-1

REV B

TITLE SCORPIO SYSTEM (SCPA)
CONTROL PANEL

NEXT HIGHER ASSEMBLY: KK810-AA



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REVISION HISTORY		
REV	NO	DATE

digital

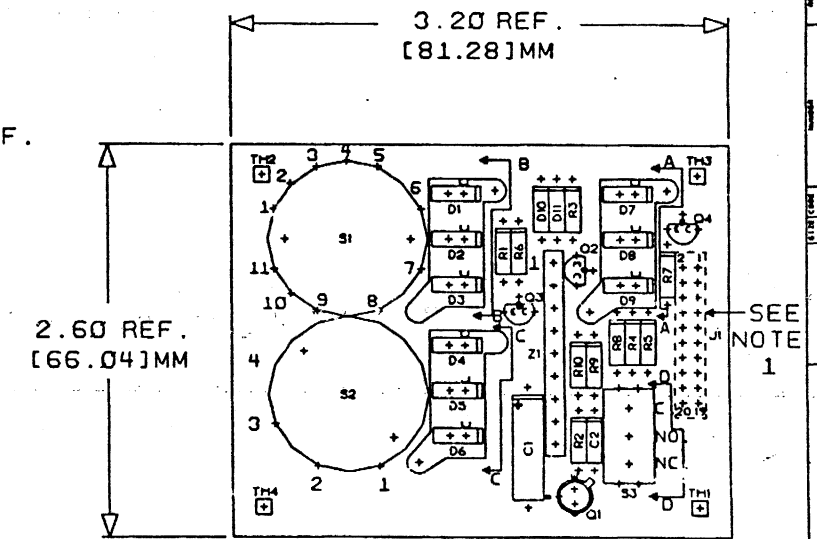
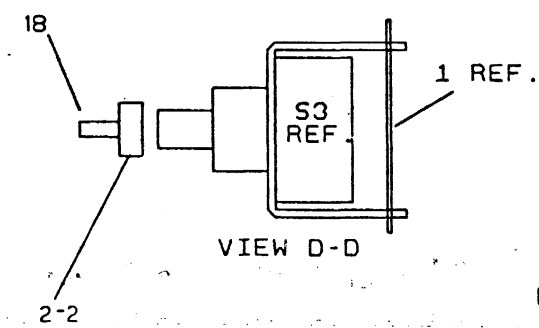
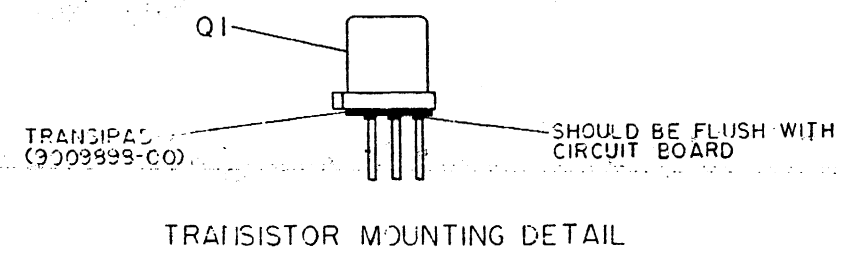
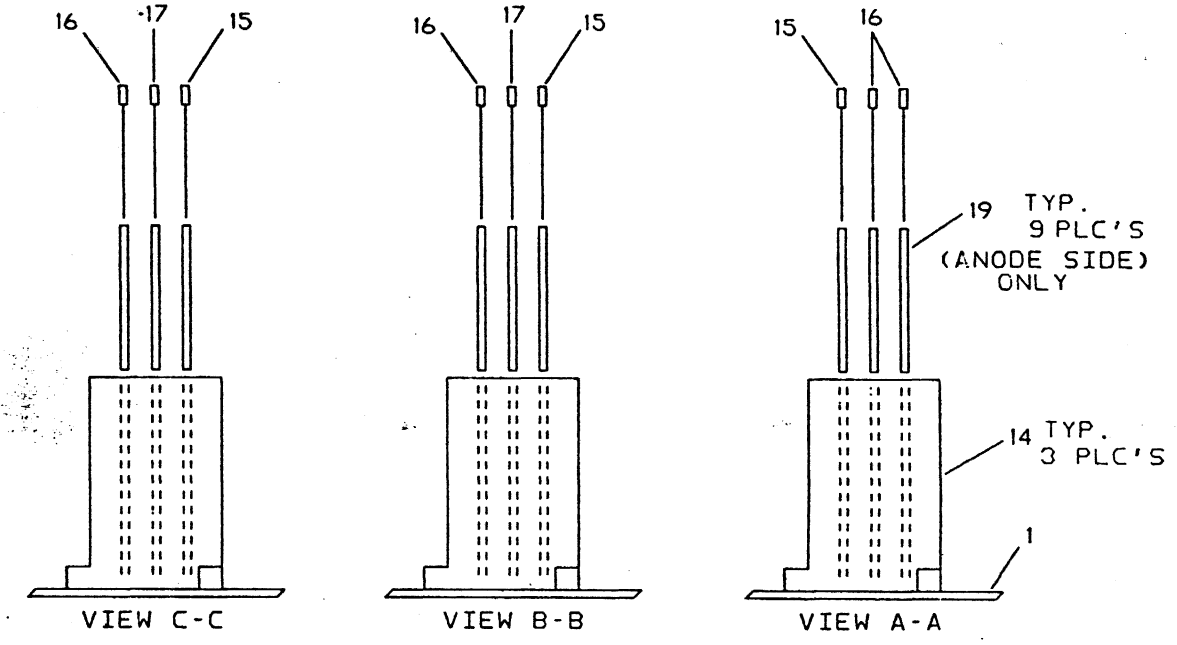
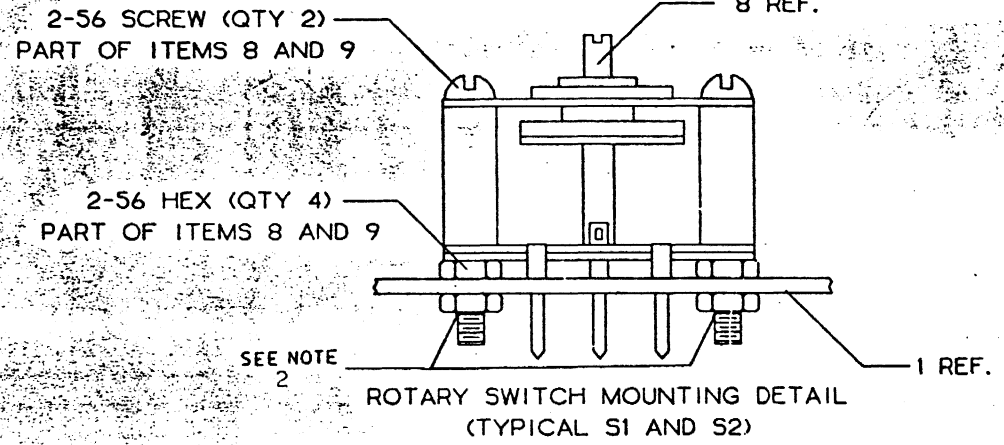
DRN:	M. RENDA	DATE	11-6-84	ENG:	WILLIAM PETERS	DATE	7-27-84
CHK'D:		DATE		SHEET	2 OF 2	NEXT HIGHER ASSEMBLY:	
				KK810-AA			

TITLE: SCORPIO SYSTEM (SCPB) CONTROL PANEL			
SIZE	CODE	NUMBER	REV
D	CS	54-16574-0-1	8

TAKE SPECIFICATIONS, DIMENSIONS, AND THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART AS THE BASIS FOR THE CONSTRUCTION OF SUCH A DRAWING WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION.

COMPONENT SIDE VIEW

D
C
B
A



CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV	CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
7	A. HATHIES	S. EARLE	246574-LK2	4-BA	B						

NOTES:

- J1 IS MOUNTED ON SIDE 2 OF PCB.
- ADD LOCTITE TO SCREWS.

STEP E → Y AXIS STEP TIMES

REPEAT → X AXIS STEP TIMES

ETCH REV. C1

SIGNATURES	DATE	digital		
DRN. JOHN ROBBINS	11-26-84			
CHK. D. R. BARRIER	12-04-84	TITLE SCORPIO CONTROL PANEL		
MECH. ENG. B. CHESLEY	12-04-84			
PROJ. ENG. M. RENDA	12-04-84			
PROD. T. FLYNN	12-04-84			
SCALE 2:1		SIZE CODE	NUMBER	REV
SHT. 1 OF 2		0 UA	3416574-0-0	B
TOP DOC. NO.	B-DC-5416574-0-0			

ALL DIMENSIONS AND THE SPECIFICATIONS CONTAINED HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNCLASSIFIED AND UNCONTROLLED DOCUMENT UNDER THE FEDERAL COPYRIGHT LAWS.

REWORK INSTRUCTIONS

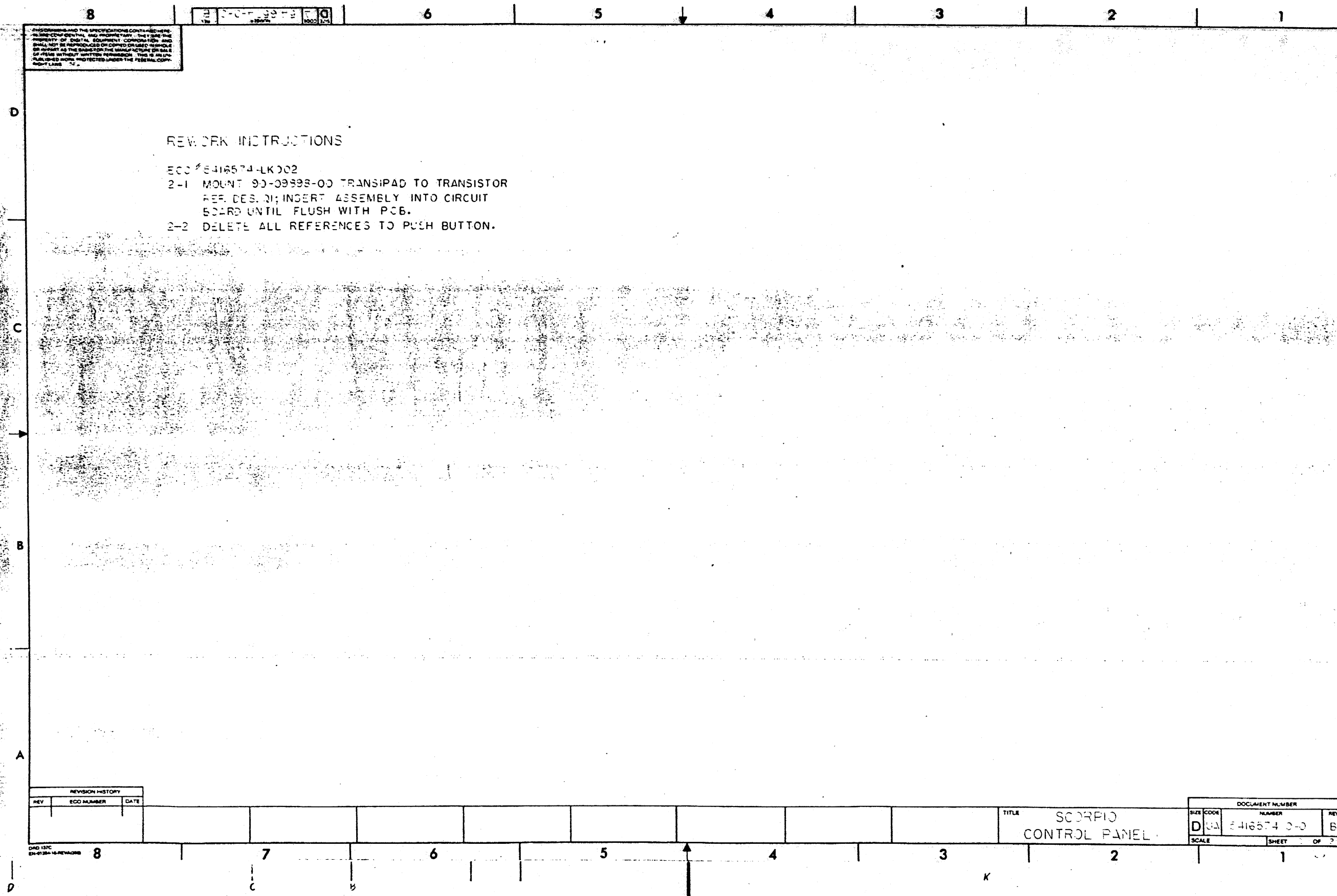
- ECC # 5416574-LK002
- 2-1 MOUNT 93-09898-00 TRANSIPAD TO TRANSISTOR REF. DES. 21; INSERT ASSEMBLY INTO CIRCUIT BOARD UNTIL FLUSH WITH PCB.
- 2-2 DELETE ALL REFERENCES TO PUSH BUTTON.

REVISION HISTORY		
REV	ECC NUMBER	DATE

DWG 137C
EN-5124-16-REV008

TITLE SCORPIO CONTROL PANEL

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
D	5416574 0-0	B
SCALE	SHEET	OF ?



AUTOMATED BY VAXKPL (V1.33)

PARTS LIST

SHEET A1 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV		REFERENCE DESIGNATORS
						01 03	02 A1	
1	1	D-MD-5016573-0-0	50-16573-01		CIRCUIT DRILL AND ETCH	1	1	
2	2		10-04812-00		15 MFD 20V +/-10% SOL	-	1	
			CONT			1	-	C1
3	3		10-12784-00		0.047MFD 50V +80/-20% 25U C	-	1	
			CONT			1	-	C2
4	4		11-14117-00		PIV= 40 IO= 75 A -4NS 1N4152	-	2	
			CONT			2	-	D10,D11
5	5		12-23996-01		PCB HEADER 20PIN(2X10)-100CC	1	-	J1
6	6		15-21002-01		2W 2369A WPM 200MA 15V TO-18	-	1	
			CONT			1	-	R1
7	7		13-00479-00		10.0 K .25 W 5.0 X CP	-	5	
			CONT			5	-	R1,R2,R8-R10
8	8		12-22314-01	C	SW,ROT 3P 4POS 28VDC/1A	1	-	
			CONT			1	-	S1
9	9		12-22313-01		SW,ROT 1P 3POS 28VDC/1A	1	-	
			CONT			1	-	S2
10	10		12-16167-00		SW,PB 1PBT NO MOM-MC 0.4A	-	1	
			CONT			1	-	S3
11	11		13-00202-00		47.0 .25 W 5.0 X CP	-	3	
			CONT			3	-	R3,R5,R7
12	12		15-10706-02	C	55 PNP 500MW SI	-	3	
			CONT			3	-	R2,R4
13	13		13-11742-00		R. NET 220.0 - B 5.0	-	1	
			CONT			1	-	Z1
14	14	D-MD-7429901-0-DBU	74-29901-01		SUPPORT,L.E.D.	3	3	
15	15		11-16622-03		LED,RED,RECT,.1CNTR,1.5MCD@20MA	-	3	
			CONT			3	-	D1,D4,D9
16	16		11-16622-04		LED,GRN,RECT,.1CNTR,1.5MCD@20MA	-	4	
			CONT			4	-	D3,D6,D8
17	17		11-16622-05		LED,YEL,RECT,.1CNTR,1.5MCD@20MA	-	2	
			CONT			2	-	D2,D5
18	18				*** THIS ITEM IS NOT USED ***	-	-	

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A1DRN		J. LIZOTTE	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE	DATE	DATE	DATE
IMP	INITIAL	A	[CA] 01/02	[EW]	20-MAR-84		
IGE	15416574-TW001	B	[CB]	[EW]	20-MAR-84		
IGE	15416574-LK002	C	[CC]	[PW]	20-MAR-84		
IMP	15416574-LK003	D	[CD]	[Q]	20-MAR-84		
IGE	15416574-MK004	E	[CE]	[RW]	20-MAR-84		
			[CF]	[SW]	20-MAR-84		
			[CM]	[TW]	20-MAR-84		
			[CJ]	[V]	20-MAR-84		
			[CK]	[W]	20-MAR-84		
			[CL]	[V]	20-MAR-84		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
15416574		10-UA-5416574-0-0		10-DB-5416574-0-0		15416574E.PLS	
<p>THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS.</p>							

AUTOMATED BY VARXPL (V1.3)

PARTS LIST

SHEET A2 OF A2

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV		REFERENCE DESIGNATORS
					01	02	
19	19 SEE NOTE # 19	91-07267-11		TUBING, TEFLON .034 ID	A/R	A/R	
20	20			*** THIS ITEM IS NOT USED ***	-	-	
21	21 SEE NOTE # 21	49-01578-01		ADHESIVE, CYANOACRYLATE, MODIFIED	A/R	A/R	
22	22	13-00444-00		3.90 K .25 W 5.0 X CP	-	2	
				CONT	2	-	R4,R6
23	23 SEE NOTE # 23	90-09898-00		TRANSIPAD, 4 HOLE	1	1	
24	24	12-23982-03		PCB HEADER 20PIN(2X10).100CC STR	-	1	

19 NOTE: 0.72 (+.2/-0) LONG-ANODE SIDE ONLY.
 21 NOTE: APPLY TO MOUNTING SCREENS, REFER TO UA 5416574-0-0.
 23 NOTE: TRANSIPAD IS MOUNTED UNDER TRANSISTER Q1. TRANSISTER HAS SAME DESIGNATOR FOR REFERENCE.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
						SCORPIO CONTROL PANEL				K PL	5416574-0-000	E

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV O1 B1	REFERENCE DESIGNATORS
1		50-16573-01		CIRCUIT DRILL AND ETCH	1	
2		10-04812-00		15 MFD 20V +/-10% SOL	1	C1
3		10-12784-00		0.047MFD 50V +80/-20% Z5U C	1	C2
4		11-14117-00		PIV= 40 IO= 75 A -4NS 1N4152	2	D10,D11
5		12-23996-01		PCB HEADER 20PIN(2X10).100CC	1	J1
6		15-21002-01		2N 2369A NPN 200MA 15V T0-18	1	Q1
7		13-00479-00		10.0 K .25 W 5.0 % CF	5	R1,R2,R8-R10
8		12-22314-01	C	SW,ROT 3P 4POS 28VDC/1A 1	1	S1
9		12-22313-01		SW,ROT 1P 3POS 28VDC/1A 1	1	S2
10		12-16167-00		SW,PB 1PDT NO MOM-NC 0.4A	1	S3
11		13-00202-00		47.0 .25 W 5.0 % CF	3	R3,R5,R7
12		15-10706-02		C 55 PNP 500MW SI	3	Q2-Q4
13		13-11742-00		R. NET 220.0 - 8 5.0	1	Z1
14	D-MD-7429901-0-DBU	74-29901-01		SUPPORT,L.E.D.	3	
15		11-16622-00		LED 1.5MCD@25MA	3	D1,D4,D9
16		11-16622-02		LED 2.0MCD@25M	4	D3,D6-D8
17		11-16622-01		LED 2.0MCD@25M	2	D2,D5
18	C-MD-7429883-0-DBU	74-29883-01		BUTTON,RE-SET	1	
19	SEE NOTE # 19	91-07267-11		TUBING,TEFLON .034ID	A/R	
20		49-01157-00		ADHESIVE,ACRYLIC RESIN,ETHYL CYA	A/R	
21	SEE NOTE # 21	49-01578-01		ADHESIVE,CYANOACRYLATE,MODIFIED	A/R	
22		13-00444-00		3.90 K .25 W 5.0 % CF	2	R4,R6

19 NOTE: 0.72 (+.2/-0) LONG-ANODE SIDE ONLY.

21 NOTE: APPLY TO MOUNTING SCREENS, REFER TO UA 5416574-0-0.

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A	DRN: J. LIZOTTE	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 20-MAR-84				
WP	5416574-LK003	A	[A] 01 [M]		CHK'D: D. BARRIERE	TITLE PARTS LIST			
			[B] [N]		DATE: 20-MAR-84	SCORPIO CONTROL PANEL			
			[C] [P]		DES.ENG: W. PETERS				
			[D] [Q]		DATE: 20-MAR-84	DOCUMENT NUMBER			
			[E] [R]		RESP.ENG.: W. PETERS	SIZE	CODE	NUMBER	REV
			[F] [S]		DATE: 20-MAR-84	K	PL	5416574-1-DBP	A
			[H] [T]		MFG.ENG: T. FLYNN	RELEASE DATE: 06-NOV-86			
			[J] [V]		DATE: 20-MAR-84	RELEASE STATUS: RELEASED			
			[K] [W]						
			[L] [Y]						
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
5416574		D-UA-5416574-0-0		B-DD-5416574-0-0		LTN130A.PLS		3	

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
					01 B2	
1	D-MD-5016573-0-0	50-16573-01		CIRCUIT DRILL AND ETCH	1	
2		10-04812-00		15 MFD 20V +/-10% SOL	1	C1
3		10-12784-00		0.047MFD 50V +80/-20% Z5U C	1	C2
4		11-14117-00		PIV= 40 IO= 75 A -4NS 1N4152	2	D10,D11
5		12-23996-01		PCB HEADER 20PIN(2X10).100CC	1	J1
6		15-21002-01		2N 2369A NPN 200MA 15V TO-18	1	Q1
7		13-00479-00		10.0 K .25 W 5.0 % CF	5	R1,R2,R8-R10
8		12-22314-01	C	SW,ROT 3P 4POS 28VDC/1A	1	S1
9		12-22313-01		SW,ROT 1P 3POS 28VDC/1A	1	S2
10		12-16167-00		SW,PB 1PDT NO MOM-NC 0.4A	1	S3
11		13-00202-00		47.0 .25 W 5.0 % CF	3	R3,R5,R7
12		15-10706-02		C 55 PNP 500MW SI	3	Q2-Q4
13		13-11742-00		R. NET 220.0 - 8 5.0	1	Z1
14	D-MD-7429901-0-DBU	74-29901-01		SUPPORT,L.E.D.	3	
15		11-16622-00		LED 1.5MCD@25MA	3	D1,D4,D9
16		11-16622-02		LED 2.0MCD@25M	4	D3,D6-D8
17		11-16622-01		LED 2.0MCD@25M	2	D2,D5
18	C-MD-7429883-0-DBU	74-29883-01		BUTTON,RE-SET	1	
19	SEE NOTE # 19	91-07267-11		TUBING,TEFLON .034ID	A/R	
20		49-01157-00		ADHESIVE,ACRYLIC RESIN,ETHYL CYA	A/R	
21	SEE NOTE # 21	49-01578-01		ADHESIVE,CYANOACRYLATE,MODIFIED	A/R	
22		13-00444-00		3.90 K .25 W 5.0 % CF	2	R4,R6

19 NOTE: 0.72 (+.2/-0) LONG-ANODE SIDE ONLY.

21 NOTE: APPLY TO MOUNTING SCREENS, REFER TO UA 5416574-0-0.

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A		DRN: J. LIZOTTE		DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE:	CHK'D:	TITLE	PARTS LIST			
WP	5416572-LK003	A	[A]	01	[M]	20-MAR-84	D. BARRIERE	SCORPIO CONTROL PANEL			
			[B]		[N]	20-MAR-84					
			[C]		[P]		DES.ENG: W. PETERS				
			[D]		[Q]	20-MAR-84		DOCUMENT NUMBER			
			[E]		[R]			SIZE	CODE	NUMBER	REV
			[F]		[S]		RESP.ENG.: W. PETERS	K	PL	5416574-2-DBP	A
			[H]		[T]	20-MAR-84					
			[J]		[V]						
			[K]		[W]		MFG.ENG: T. FLYNN	RELEASE DATE: 06-NOV-86			
			[L]		[Y]	20-MAR-84		RELEASE STATUS: RELEASED			
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
			5416574		D-UA-5416574-0-0		B-DD-5416574-0-0		LTN131A.PLS		2

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DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS
		54-13547-01	DC FILTER	A2
Q-UA-5418547-0-0	1		DC FILTER	A
B-CS-5418547-0-1	1		DC FILTER	A
K-PL-5418547-0-DBP	1		DC FILTER	A
K-AB-5418547-0-CBA	-		P. C. DESIGN DATA BASE	A
K-CS-5418547-0-CBX	-		DC FILTER	A
		50-13546-01	ETCHED CIRCUIT BOARD	B1
K-DD-5018546-0-0	1		DRAWING DIRECTORY	A

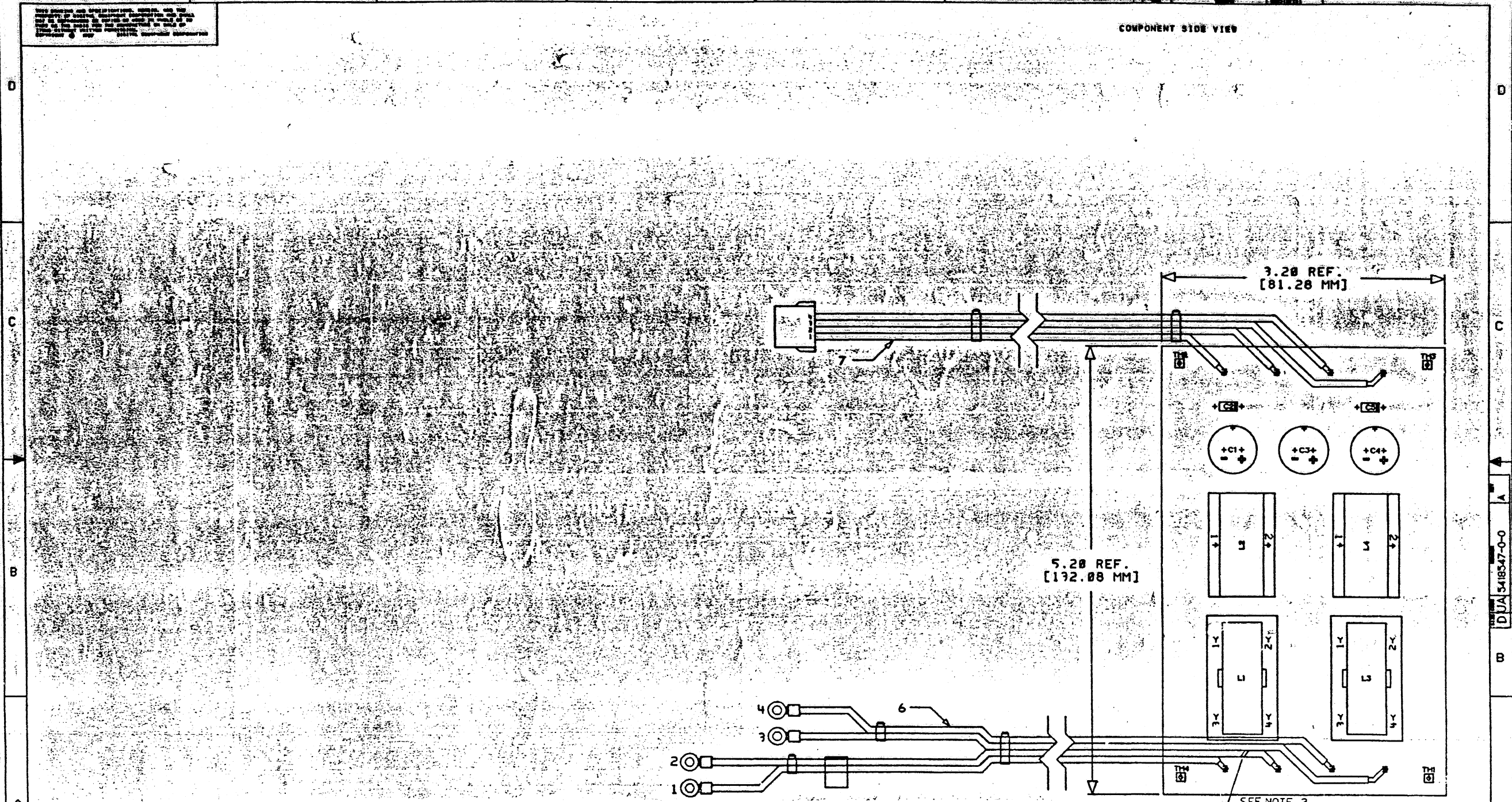
NOTES:

REVISIONS
 R E V
 I S I D I
 S T I
 I O R N
 O R D
 N Y
 D J
 A U
 T L
 E B
 7

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DRN: P. LENNON	DATE: 14-JUL-87	d i g i t a l		
CHK'D: C. LIVIERATOS	DATE: 14-JUL-87	TITLE	DC FILTER	
DES. ENG.: S. HODGE	DATE: 14-JUL-87	SHEET	1 OF 1	EDIT: 6
RESP. ENG.: S. HODGE	DATE: 14-JUL-87	DOCUMENT NUMBER		
		DD FILENAME: 5418547A.CDF		
MFG. ENG.: J. TUCKER	DATE: 14-JUL-87	SIZE	CODE	NUMBER
		K	00	5418547-0-0
				REV: 1

8 7 6 5 4 3 2 1



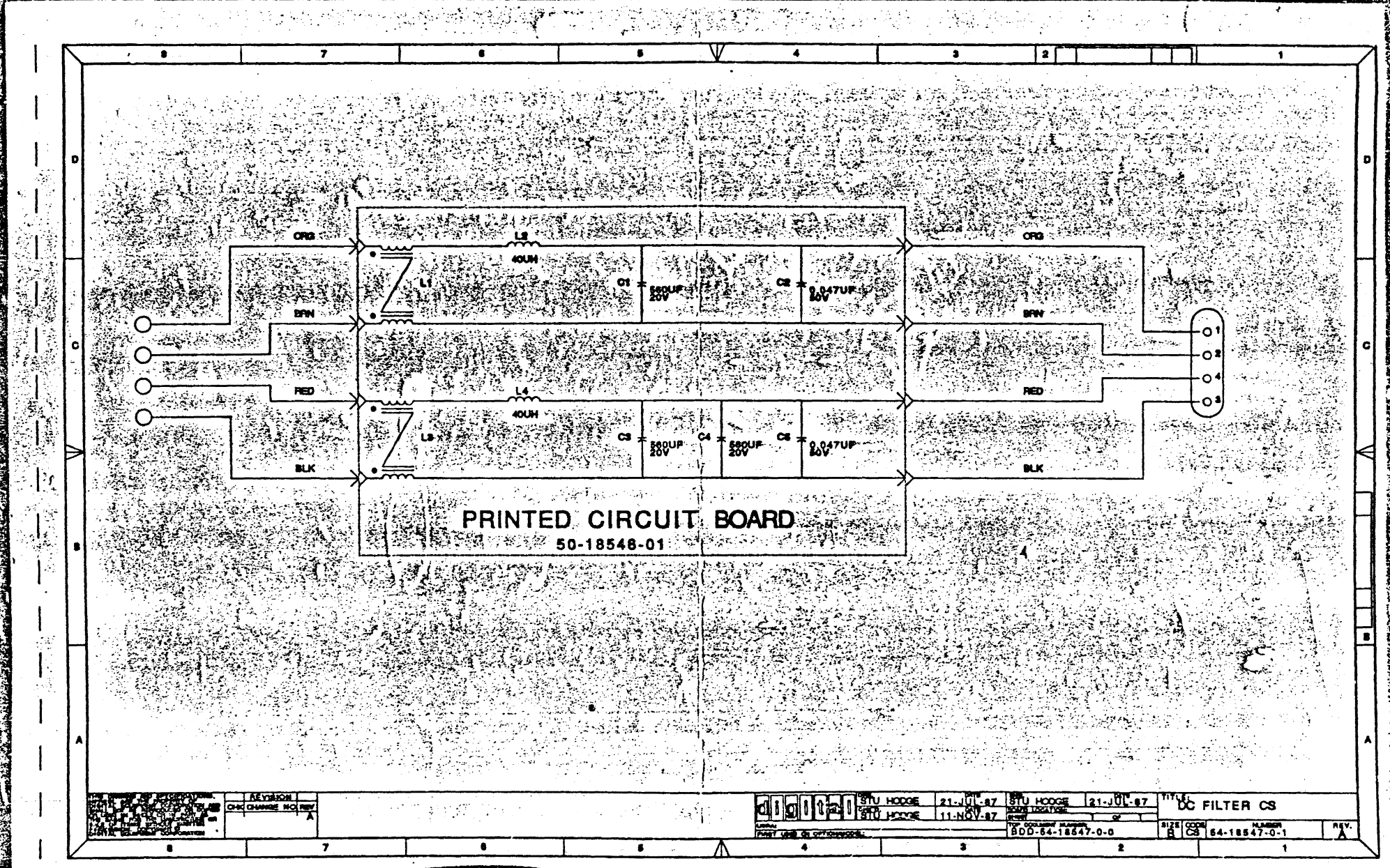
CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV	CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES:
 1. THIS BOARD MUST MEET SAFETY REQUIREMENT FOR HPWR.
 2. BRADY MARKER TO BE LOCATED HERE.

STEP 2	+ Y RCL	STEP	TD-3
REPORT	+ X RCL	STEP	TD-3

SIGNATURES	DATE	TITLE
DRN. JOHN ROBBINS	7-10-67	digital
CHK'D. <i>[Signature]</i>	7-11-67	
MECH. ENG. <i>[Signature]</i>	7-11-67	
PROJ. ENG. <i>[Signature]</i>	7-11-67	
PROD. <i>[Signature]</i>	7-11-67	
SCALE 2:1		
SHT. 1 OF 1		
TOP DOC. NO. K-55-5418547-0-0		

8 7 6 5 4 3 2 1 MS# -



REV	DESCRIPTION	DATE
A	CHG CHANGE NO	

DESIGNED BY	DATE	DESIGNED BY	DATE
STU HOOGE	21-JUL-87	STU HOOGE	21-JUL-87
STU HOOGE	11-NOV-87		

TITLE	DC FILTER CS
SIZE	CS
QUANTITY	64-18547-0-1
REV	A

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV 01 A2	REFERENCE DESIGNATORS
1	1	50-18546-01		DRILL AND ETCH	1	
2	2	10-12607-00		560 MFD 20V +100/-10% ALU	3	C1,C3,C4
3	3	10-12784-00		0.047MFD 50V +80/-20% Z5U C	2	C2,C5
4	4	16-22459-01		BALUN,PRIMARY LINE 5A RMS 4MH	2	L1,L3
5	5	16-26640-01		INDUCER,OUTPUT FILTER,2V 12A 33K	2	L2,L4
6	6	17-01812-01		WIRE HARN ASSY 04COND 14AWG (2)4	1	
7	7	17-01813-01		WIRE HARN ASSY 04COND 14AWG (2)4	1	

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: S. BOSWORTH		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D:	DATE:	TITLE	DC FILTER	DOCUMENT NUMBER	REV
---	INITIAL	A	[A] 01 [M] [B] [N] [C] [P] [D] [Q] [E] [R] [F] [S] [H] [T] [J] [V] [K] [W] [L] [Y]	C. LIVIERATOS	19-MAR-87	DC FILTER		5418547-0-DBP	A
				S. HODGE	19-MAR-87				
				S. HODGE	19-MAR-87				
				J. TUCKER	20-AUG-87				
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
5418547		D-UA-5418547-0-0		K-DD-5418547-0-0		5418547A.PLS		15	

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01	02
					A1	A1
1	E-UA-H9400-0-DBU	H9400-AG		H9400-AA,SECONDARY(BC30A-01,W/O ID	-	1
2	E-UA-H9400-0-DBU	H9400-AH		H9400-AA,TERTIARY(BC30A-01,W/O ID	-	1
3	D-MD-7433319-0-DBU	74-33319-01		SPACER,CC	2	2
4	E-MD-7434762-0-DBU	74-34762-01		PLATE,BI MTG.,R.H.	1	1
5	E-MD-7434762-0-DBU	74-34762-02		PLATE,BI MTG.,L.H.	1	1
6		17-01038-01		CABLE ASSY,FLEXIBLE BACKPLANE EXT	-	1
7	E-UA-H9400-0-DBU	H9400-AF		H9400-AA,PRIMARY(966-A,-B)W/O ID P	2	-
8		90-06077-01		SCREW,MACH PAN PHIL 10-32	4	4
9		90-08007-02		SCREW,MACH FLAT PHIL 10-32	8	8
10	C-MD-7436670-0-DBU	74-36670-01		FOAM,TAPE	2	2
11	D-MD-7434536-0-DBU	74-34536-02		AIR SEAL BOTTOM BI	2	2
12	D-MD-7434536-0-DBU	74-34536-01		AIR SEAL TOP	1	1
13	C-MD-1228345-0-DBU	12-28345-01		BUS BAR,-2V DUAL BI	2	2
14	C-MD-1228342-0-DBU	12-28342-01		BUS BAR -5.2V DUAL BI	2	2
15	D-MD-1228343-0-DBU	12-28343-01		BUS BAR,JUMPER -5.2V	1	1
16	D-MD-1228344-0-DBU	12-28344-01		JUMPER ASSY	1	1
17	D-IA-1228508-0-DBU	12-28508-01		BUS BAR ASSY,DUAL BI	1	1
18	B-MD-1228353-0-DBU	12-28353-01		BUS BAR,GND STRAP	-	1
19	C-MD-1228352-0-DBU	12-28352-01		BUS BAR,JUMPER +5V	-	1
20		90-06560-00		NUT,HEX EXT TOOTH LCKWSHR 6-32X	1	1
21		90-06563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32X	3	5
22		90-09984-07		SCREW,SEMS PAN PHIL 6-32	38	38
23		90-07867-00		MOUNT,PUSH,CABLE TIE	4	4
24		12-23701-01		PLUG,NODE ID # 1	2	1
25		12-23701-02		PLUG,NODE ID # 2	2	1
26		12-23701-03		PLUG,NODE ID # 3	2	1
27		12-23701-04		PLUG,NODE ID # 4	2	1
28		12-23701-05		PLUG,NODE ID # 5	2	1
29		12-23701-06		PLUG,NODE ID # 6	2	1
30		12-23701-07		PLUG,NODE ID # 7	-	1
31		12-23701-08		PLUG,NODE ID # 8	-	1
32		12-23701-09		PLUG,NODE ID # 9	-	1

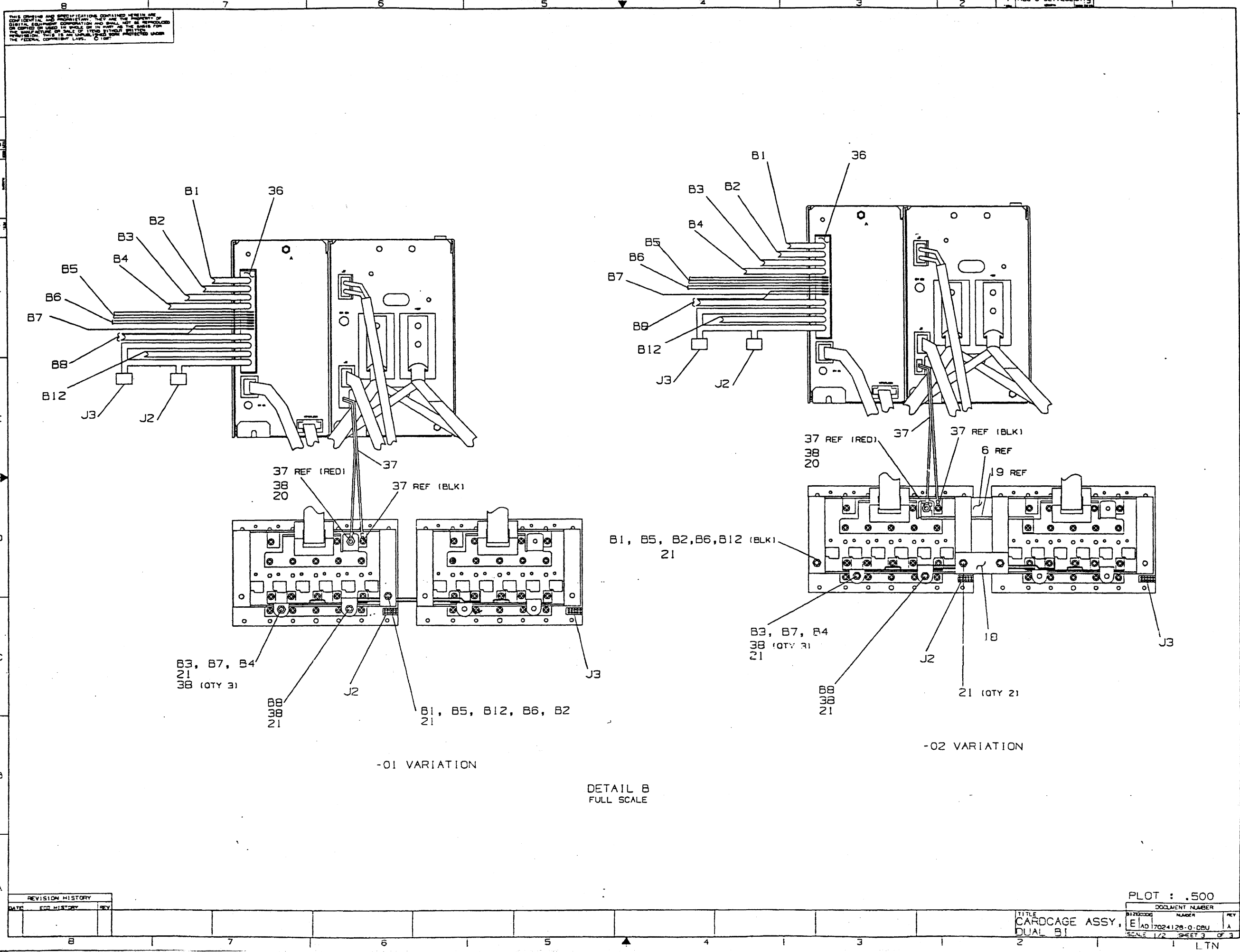
REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A		DRN: T. L'ECUYER		DIGITAL		
ENG	ECC NUMBER	REV	SECTION/VARIATION INDEX		DATE: 01-SEP-87						
---	INITIAL	A	[A]	01,02	CHK'D: J. KUSHIGAN		TITLE PARTS LIST				
			[B]		DATE: 10-SEP-87		CARDGAGE ASSY DUAL BI				
			[C]		DES.ENG: M. ZAMBARANO						
			[D]		DATE: 18-JAN-88		DOCUMENT NUMBER				
			[E]		RESP.ENG.: M. ZAMBARANO		SIZE	CODE	NUMBER	REV	
			[F]		DATE: 18-JAN-88		K	PL	7024126-0-DBP	A	
			[G]		MFG.ENG: R. A. DISTEFANO		RELEASE DATE: 18-JAN-88				
			[H]		DATE: 18-JAN-88		RELEASE STATUS: RELEASED				
			[J]								
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #		
7024126			E-AD-7024126-0-DBU		E-AD-7024126-0-DBU		7024126A.PLS		40		

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01	02	QUANTITY PER VARIATION/REVISION
33	33	12-23701-10		PLUG,NODE ID #10	-	1	
34	34	12-23701-11		PLUG,NODE ID #11	-	1	
35	35	12-23701-12		PLUG,NODE ID #12	-	1	
36	36	17-01523-01		WIRE HARN ASSY 26COND 10/14/22AWG	1	1	
37	37	17-01525-01		WIRE HARN ASSY 04COND 22AWG IDC-2R	1	1	
38	38	90-06660-00		WASHER,FLAT SST	5	5	
39	39	90-07031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	7	7	

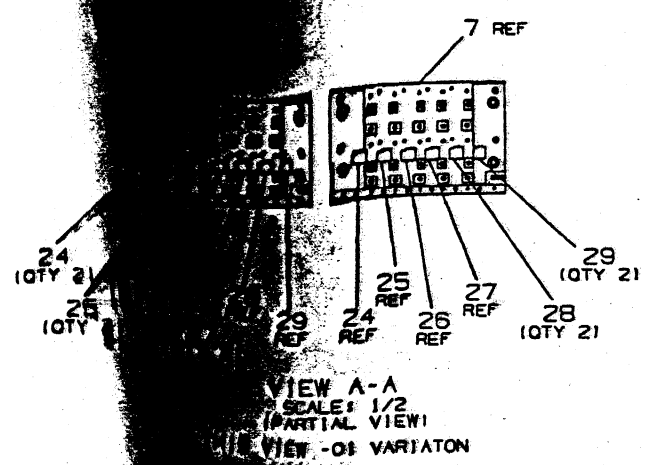
! D ! I ! G ! I ! T ! A ! L !	! TITLE	! SECTION A OF A	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! ! ! ! ! ! ! !	CARDCAGE ASSY DUAL BI	! ! ! ! !	! ! ! ! !	! K ! PL ! 7024126-0-DBP	! A !

SCALE: 0.156

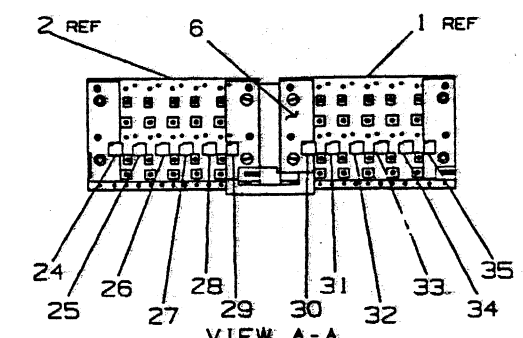


SCALE: 0.156

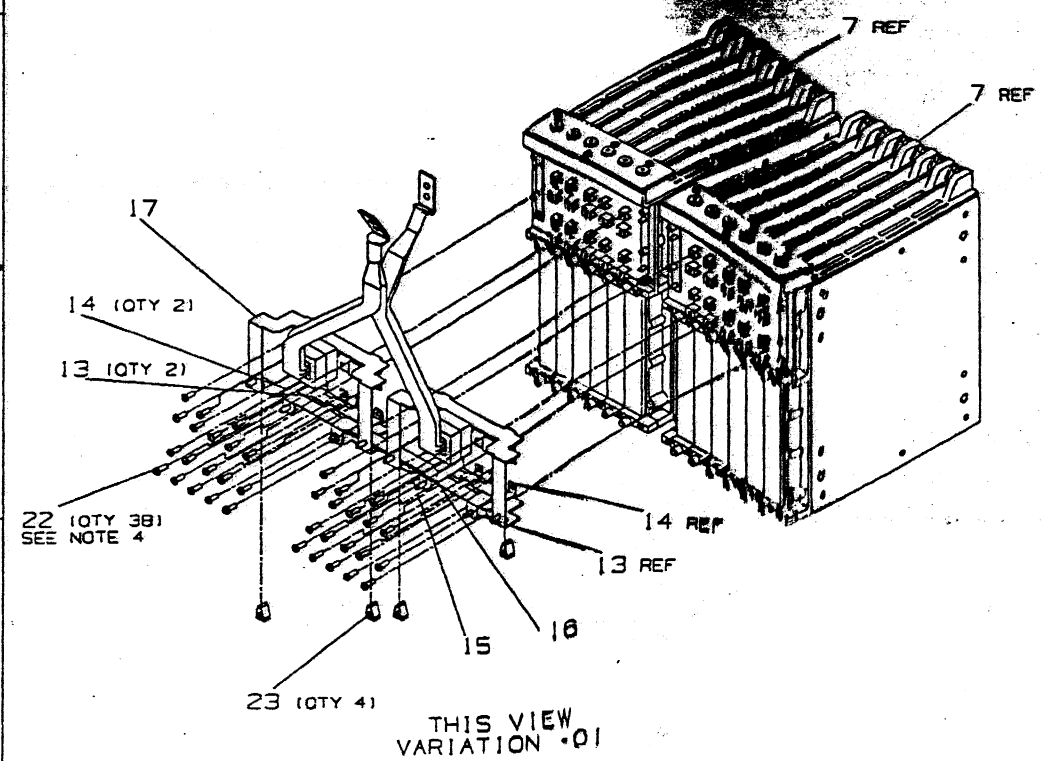
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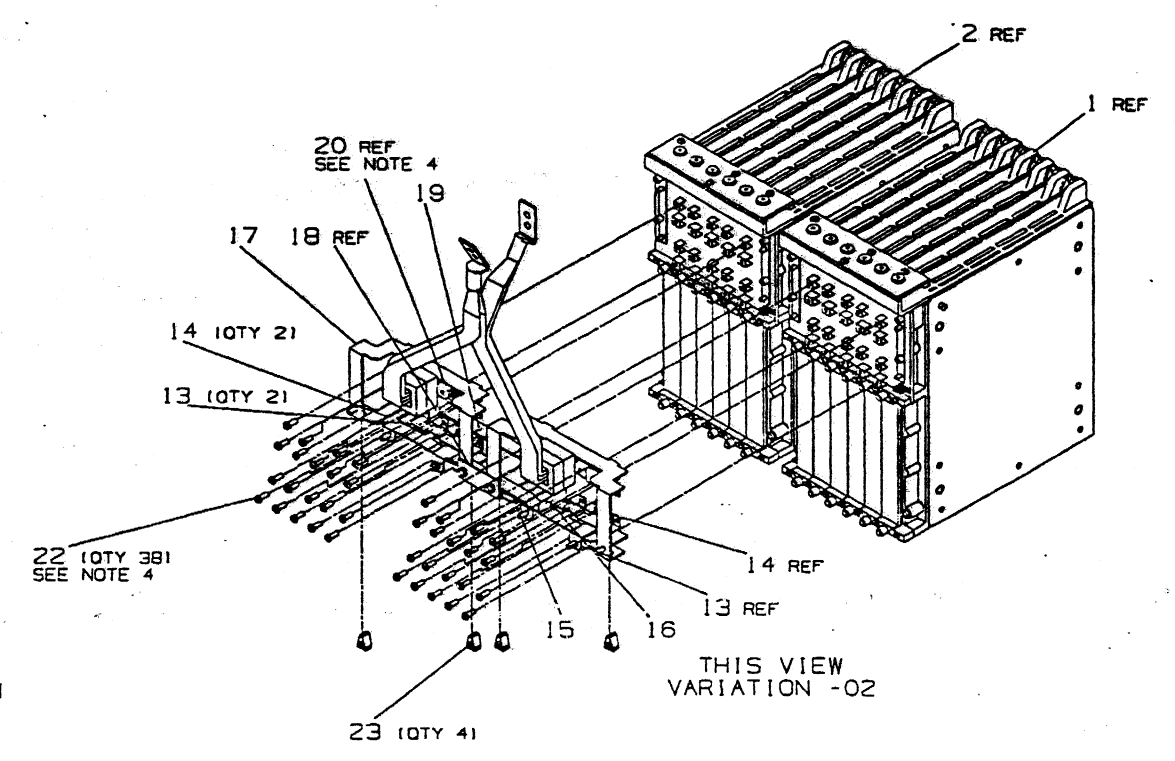
VIEW A-A
SCALE: 1/2
(PARTIAL VIEW)
THIS VIEW -01 VARIATION



VIEW A-A
SCALE: 1/2
(PARTIAL VIEW)
THIS VIEW -02 VARIATION



THIS VIEW
VARIATION -01



THIS VIEW
VARIATION -02

VIEW H-H

SEE DETAIL B
(SHEET 3)
FOR CABLE INTERCONNECTION WITH REGULATOR

REVISION HISTORY		
DATE	ECO HISTORY	REV

PLOT : .500

TITLE	DOCUMENT NUMBER	REV
CARDCAGE ASSY, DUAL B1	EAD7024126-0-000	A
SCALE: 1/2	SHEET 2	OF 3

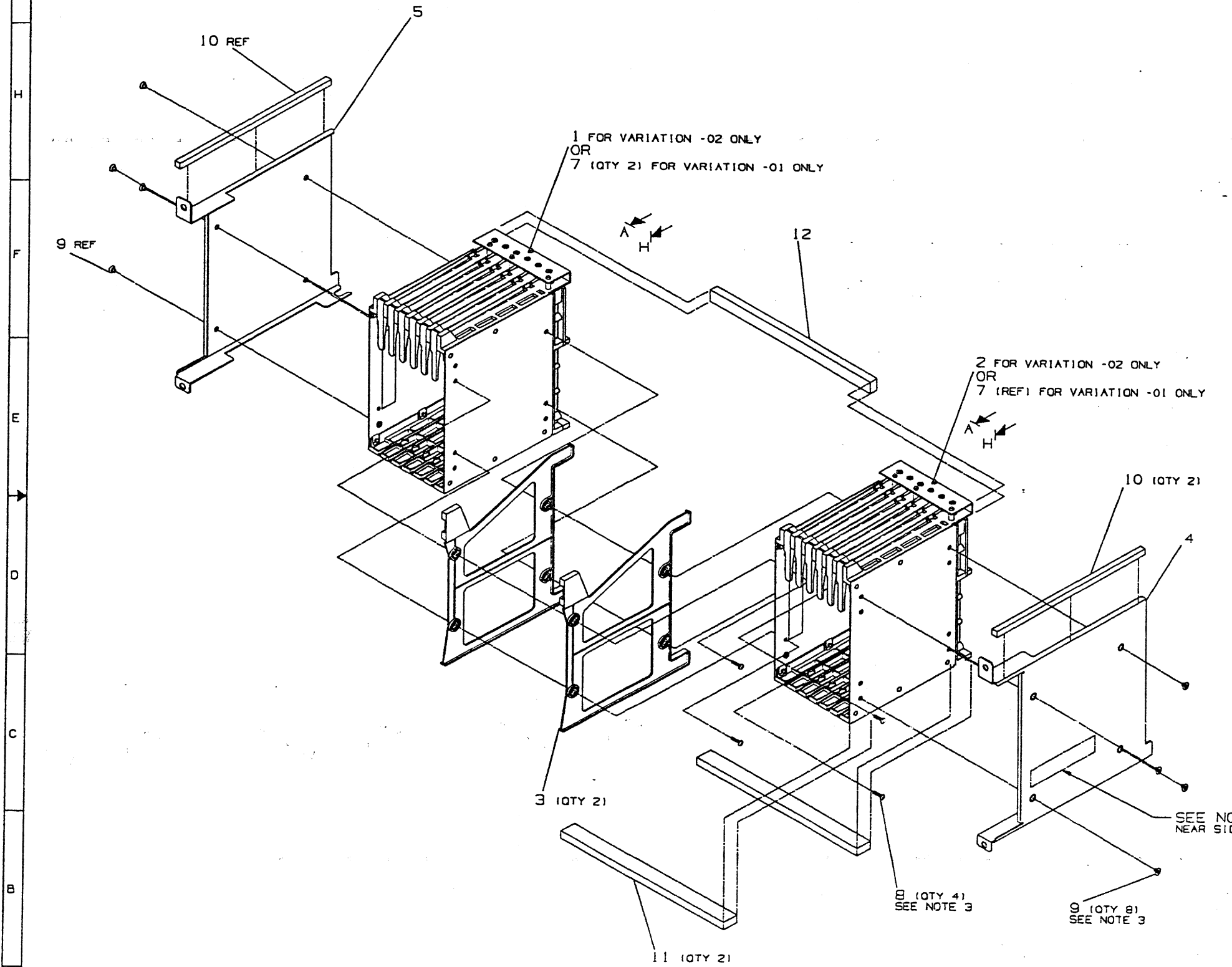
LTN

SCALE: 0.156

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LEGEND		
PART NO	REV	VARIATION
70-24126-01	A1	AS SHOWN
70-24126-02	A1	AS SHOWN

- NOTES:
1. APPLY ITEMS 12 AND 11 AFTER ASSEMBLY OF ITEM 1, 2, AND 3 (CARDAGE AND SPACERS).
 2. MARK PART WITH PART NO., REV. LEVEL, AND VENDOR I.D., LOCATE APPROX. AS SHOWN, PER DEC STD. 178
 3. TORQUE SCREWS, ITEM 8&9, TO 27.0 ±5.4 IN-LBS.
 4. TORQUE NUT, ITEM 20, AND SCREW, ITEM 22 TO 9.0 ±1.8 IN-LBS.
 5. TORQUE NUT, ITEM 21, TO 19.8 ±3.96 IN-LBS.
 6. ITEM #39, CABLE TIES, NOT SHOWN ON DRAWING MANUFACTURING TO DETERMINE LOCATIONS OF CABLE TIES TO ENSURE PROPEWR ASSEMBLY.



SEE NOTE 2 NEAR SIDE

LAYER: 1 = WORK (SHT ONE)
 LAYER: 2 = FORMAT (SHT ONE)
 LAYER: 3 = WORK (SHT TWO)
 LAYER: 4 = WORK (SHT THREE)
 LAYER: 5 = FORMAT (SHT TWO & THREE)
 PLOT AT: .500

CAUTION: OFF SHEETS PARTS LISTS EXISTS
 SEE K-PL-7024126-0-DEP

REV	1
DATE	
BY	
CHKD	

DESCRIPTION	DRAWING NO.	PART NO.	REV.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DIMENSION RANGE IN INCHES	0 - .25	±.005	
	.25 - .50	±.008	
APPROXIMATE DIMENSION	0 - .25	±.005	
	.25 - .50	±.008	
FINISH	0 - .25	±.005	
	.25 - .50	±.008	
THIRD ANGLE PROJECTION	DESIGNED BY: F. L'ECUYER DRAWN BY: J. KUSHIGAN CHECKED BY: P. TOUSIGNANT MATERIAL: M. ZAMBARANO SEE PARTS LISTS: R. DISTEFANO FINISH: NONE		
TITLE		TITLE: CARDCAGE ASSY, DUAL B1 DOCUMENT NUMBER: E-AD-7024126-0-DBU A REV: 1/2 SHEET: 1 OF 3	

E-AD-7024126-0-DBU A

LTN

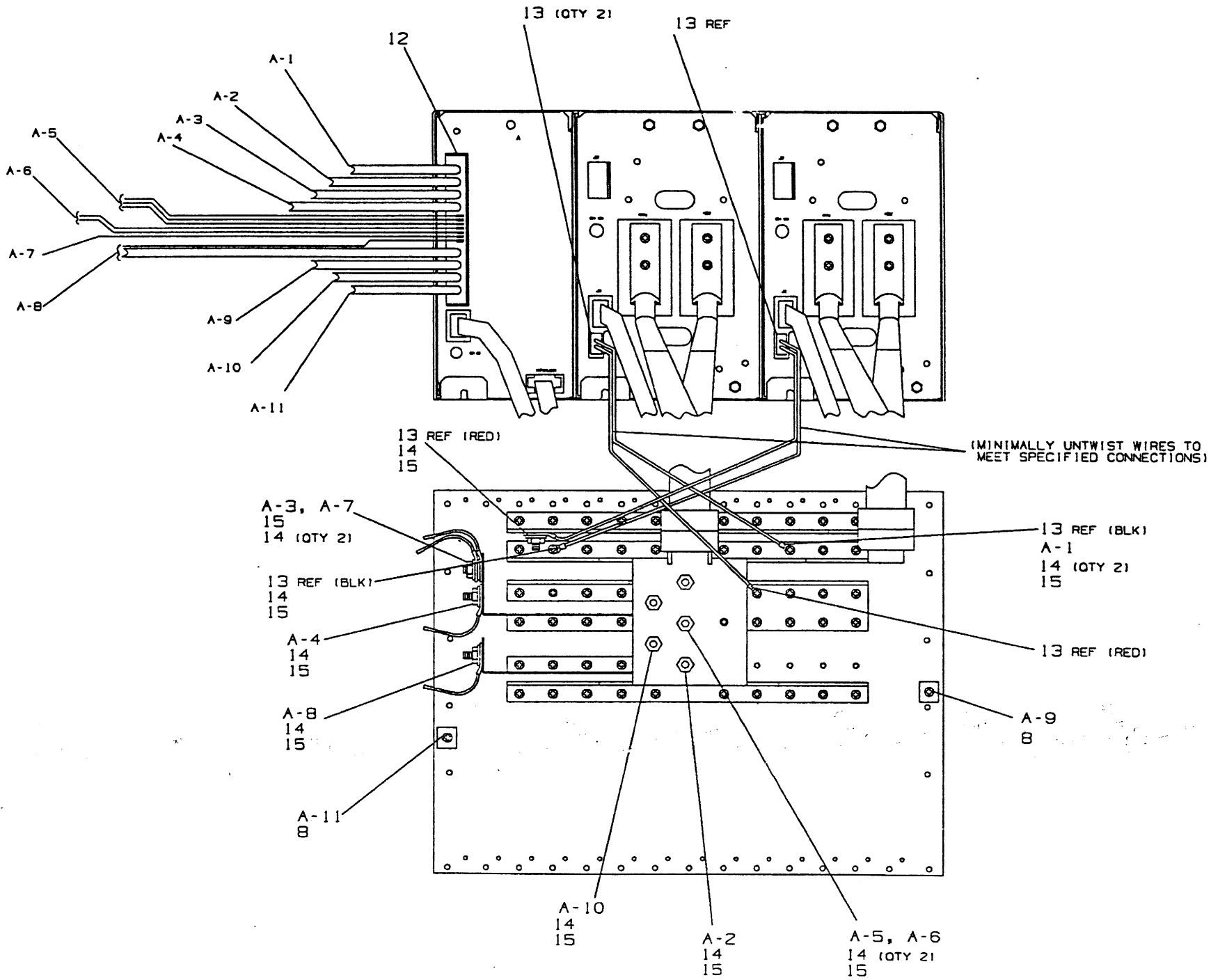
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 A2	QUANTITY PER VARIATION/REVISION
1	E-UA-7024373-0-DBU	70-24373-01		CARD CAGE SYSTEM ASSY, 14 SLOT	1	
2	E-MD-7434763-0-DBU	74-34763-02		PLATE,XMI MTG.,L.H.	1	
3	E-MD-7434763-0-DBU	74-34763-01		PLATE,XMI MTG.,R.H.	1	
4		90-08007-02		SCREW,MACH FLAT PHIL 10-32	8	
5		12-27676-01		BUS BAR ASSY	1	
6		12-27938-01		BUS BAR UNINSULATED,.030 THICK COP	1	
7		12-27939-01		BUS BAR UNINSULATED,.030 THICK COP	1	
8		90-09984-07		SCREW,SEMS PAN PHIL 6-32	.57	
9	C-MD-7436670-0-DBU	74-36670-02		FOAM,TAPE	2	
10	D-MD-7434536-0-DBU	74-34536-01		AIR SEAL TOP	1	
11	D-MD-7434536-0-DBU	74-34536-03		AIR SEAL BOTTOM XMI,14 SLOT	2	
12		17-01566-01		WIRE HARN ASSY 15COND 10/1422AWG 3	1	
13		17-01525-01		WIRE HARN ASSY 04COND 22AWG IDC-2R	2	
14		90-06660-00		WASHER,FLAT SST	12	
15		90-06563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32X	9	
16		90-07031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	4	

REVISION HISTORY			KPL MATRIX FORMAT SECTION A OF A			DRN: T. L'ECUYER				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 14-JUL-87	DIGITAL			
---	INITIAL	A	[A]	01		CHK'D: J. KUSHIGAN	TITLE PARTS LIST			
SR	7024902-LTN01	B	[B]			DATE: 09-SEP-87	14 SLOT ASSY			
			[C]			DES.ENG: M. ZAMBARANO	DOCUMENT NUMBER			
			[D]			DATE: 18-JAN-88	SIZE	CODE	NUMBER	REV
			[E]							
			[F]			RESP.ENG.: M. ZAMBARANO				
			[H]			DATE: 18-JAN-88	K	PL	7024902-0-DBP	B
			[J]							
						MFG.ENG: R. DISTEFANO	RELEASE DATE: 12-JUL-88			
						DATE: 18-JAN-88	RELEASE STATUS: RELEASED			
						BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
						7024902	E-AD-7024902-0-DBU	E-AD-7023902-0-DBU	7024902B.PLS	5

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E IAD 7024902-0-DBU 5



(MINIMALLY UNTWIST WIRES TO MEET SPECIFIED CONNECTIONS)

DETAIL A
FULL SCALE

PLOT AT: .500

REVISION HISTORY		
DATE	REV	DESCRIPTION

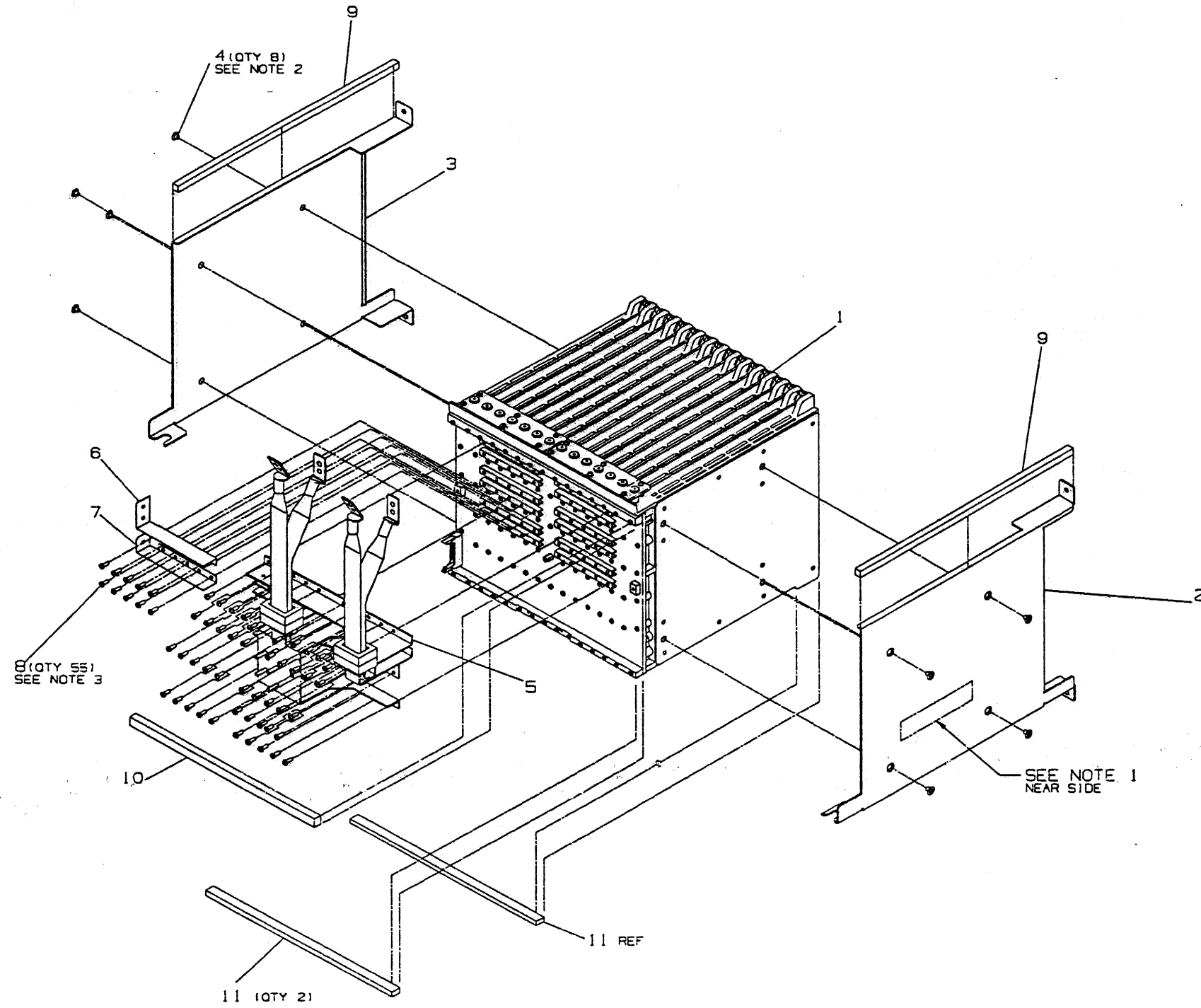
TITLE	14 SLOT ASSY
DOCUMENT NUMBER	E IAD 7024902-0-DBU 5
SCALE	1/2" = 1" SHEET 2 OF 2

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LEGEND		
PART NO	REV	VARIATION
70-24902-01	A2	AS SHOWN

- NOTES:
1. MARK PART WITH PART NO., REV. LEVEL, AND VENDOR I.D., LOCATE APPROX. AS SHOWN, PER DEC STD. 178
 2. TORQUE SCREW, ITEM 4, TO 27.0 ± 5.4 IN-LBS.
 3. TORQUE SCREW, ITEM 8, TO 9.0 ± 1.8 IN-LBS.
 4. TORQUE NUT, ITEM 15, TO 19.8 ± 3.96 IN-LBS.
 5. ITEM 16, TIE WRAPS, NOT SHOWN ON DRAWING. MANUFACTURING TO DETERMINE LOCATIONS TO ENSURE PROPER ASSEMBLY.

SCALE: 0.156



SEE DETAIL A
(SHEET 2)
FOR CABLE INTERCONNECTION WITH REGULATOR

PLOT AT: .500
LAYER: 1 = WORK SHEET 1
LAYER: 2 = FORMAT SHEET 1
LAYER: 3 = WORK SHEET 2
LAYER: 4 = FORMAT SHEET 2

CAUTION: OFF SHEETS PARTS LISTS EXISTS
SEE K-PL-7024902-0-DBP

REV	DATE	INITIAL	DESCRIPTION
A			
B			
C			
D			
E			
F			
G			
H			
I			
J			

FIRST NUMBER ASSY
E-LA-7024900-0-CBU

DESCRIPTION	DRAWING NO.	PART NO.	REV.																																																																	
14 SLOT ASSY																																																																				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)																																																																				
DIMENSION RANGE IN INCHES																																																																				
<table border="1"> <tr> <th>SIZE</th> <th>0.000 - 0.250</th> <th>0.250 - 0.500</th> <th>0.500 - 1.000</th> <th>1.000 - 2.000</th> <th>2.000 - 5.000</th> <th>5.000 - 10.000</th> <th>10.000 - 25.000</th> <th>25.000 - 50.000</th> <th>50.000 - 100.000</th> <th>100.000 - 250.000</th> <th>250.000 - 500.000</th> <th>500.000 - 1000.000</th> </tr> <tr> <td>±</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> </tr> <tr> <td>Ø</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> </tr> <tr> <td>CHAMFER</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> </tr> <tr> <td>PLACES</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> </tr> </table>				SIZE	0.000 - 0.250	0.250 - 0.500	0.500 - 1.000	1.000 - 2.000	2.000 - 5.000	5.000 - 10.000	10.000 - 25.000	25.000 - 50.000	50.000 - 100.000	100.000 - 250.000	250.000 - 500.000	500.000 - 1000.000	±	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	Ø	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	CHAMFER	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	PLACES	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
SIZE	0.000 - 0.250	0.250 - 0.500	0.500 - 1.000	1.000 - 2.000	2.000 - 5.000	5.000 - 10.000	10.000 - 25.000	25.000 - 50.000	50.000 - 100.000	100.000 - 250.000	250.000 - 500.000	500.000 - 1000.000																																																								
±	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005																																																								
Ø	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005																																																								
CHAMFER	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005																																																								
PLACES	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005																																																								
DESIGNER	J. KUSHIGAN	DATE	02-11-87																																																																	
CHECKED	M. ZAMBARANO	DATE	08SEP87																																																																	
APPROVED	M. ZAMBARANO	DATE	08JAN88																																																																	
ENGINEER	M. ZAMBARANO	DATE	08JAN88																																																																	
MANUFACTURER	D. DISTEFANO	DATE	08JAN88																																																																	
FINISH	E-AD-7024902-0-CBU	SCALE	1/2																																																																	

LTN

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS		
		5418176-01	CPU BCKPLN MODULE	B1	C1	C2
K-PC-5418176-0-DBV	-		P.C. DESIGN DATABASE (VLS)	A	B	C
K-CS-5418176-0-DBX	-		C.S. DESIGN DATABASE (VALID)	C	D	E
K-PL-5418176-1-DBP	1		CPU BCKPLN PARTS LIST	A	B	
E-UA-5418176-1-0	5		CPU BCKPLN UNIT ASSEMBLY	A	B	
K-IF-5418176-1-0	1		PLO DATA INDEX	A	B	
K-ST-5418176-1-0	1		BUILD DATA INDEX	A	B	
K-PL-5418176-2-DBP	1		CPU BCKPLN PARTS LIST			A
E-UA-5418176-2-0	5		CPU BCKPLN UNIT ASSEMBLY			A
K-IF-5418176-2-0	1		PLO DATA INDEX			A
K-ST-5418176-2-0	1		BUILD DATA INDEX			A
K-RM-5418176-0-0	1		REVISION MATRIX HISTORY	A	B	C
K-CS-5418176-1-0001	1		CPU BCKPLN CS PAGE 1	A	B	

NOTES:

[REDACTED]

REVISION HISTORY	REV		
	NO	INIT	LTNOR
		1	2
		9/87	5/88

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DRN: C. HARTEL	DATE: 10-MAY-88	d i g i t a l		
CHK'D: T. MCCULLOUGH	DATE: 10-MAY-88	TITLE CPU BACKPLANE MODULE (14 SLOT)		
DES.ENG.: J. STAPLES	DATE: 10-MAY-88	SHEET 1 OF 2	EDIT: 19	
RESP.ENG.: J. OBBARD	DATE: 10-MAY-88	DOCUMENT NUMBER		
MFG.ENG.: J. SVEC	DATE: 10-MAY-88	DD FILENAME: 5418176C.DDF		
		SIZE K	CODE DD	NUMBER 5418176-0-0
				REV C

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS		
K-CS-5418176-1-0002	1		CPU BCKPLN CS PAGE 2	A	B	
K-CS-5418176-1-0003	1		CPU BCKPLN CS PAGE 3	A	B	
K-CS-5418176-1-0004	1		CPU BCKPLN CS PAGE 4	A	B	
K-CS-5418176-1-0005	1		CPU BCKPLN CS PAGE 5	A	B	
K-CS-5418176-1-0006	1		CPU BCKPLN CS PAGE 6	A	B	
K-CS-5418176-1-0007	1		CPU BCKPLN CS PAGE 7	A	B	
K-CS-5418176-1-0008	1		CPU BCKPLN CS PAGE 8	A	B	
K-CS-5418176-1-0009	1		CPU BCKPLN CS PAGE 9	A	B	
K-CS-5418176-1-0010	1		CPU BCKPLN CS PAGE 10	A	B	
K-CS-5418176-1-0011	1		CPU BCKPLN CS PAGE 11	A	B	
K-CS-5418176-1-0012	1		CPU BCKPLN CS PAGE 12	A	B	
K-CS-5418176-1-0013	1		CPU BCKPLN CS PAGE 13	A	B	
K-CS-5418176-1-0014	1		CPU BCKPLN CS PAGE 14	A	B	
K-CS-5418176-2-0001	1		CPU BCKPLN CS PAGE 1			A
K-CS-5418176-2-0002	1		CPU BCKPLN CS PAGE 2			A
K-CS-5418176-2-0003	1		CPU BCKPLN CS PAGE 3			A
K-CS-5418176-2-0004	1		CPU BCKPLN CS PAGE 4			A
K-CS-5418176-2-0005	1		CPU BCKPLN CS PAGE 5			A
K-CS-5418176-2-0006	1		CPU BCKPLN CS PAGE 6			A
K-CS-5418176-2-0007	1		CPU BCKPLN CS PAGE 7			A
K-CS-5418176-2-0008	1		CPU BCKPLN CS PAGE 8			A
K-CS-5418176-2-0009	1		CPU BCKPLN CS PAGE 9			A
K-CS-5418176-2-0010	1		CPU BCKPLN CS PAGE 10			A
K-CS-5418176-2-0011	1		CPU BCKPLN CS PAGE 11			A
K-CS-5418176-2-0012	1		CPU BCKPLN CS PAGE 12			A
K-CS-5418176-2-0013	1		CPU BCKPLN CS PAGE 13			A
K-CS-5418176-2-0014	1		CPU BCKPLN CS PAGE 14			A
K-DD-5018175-0-0	1	50-18175-01	EO LEVEL DRAWING DIRECTORY DRILL AND ETCH	A B1	A B1	B C1

d	i	g	i	t	a	1	TITLE CPU BACKPLANE MODULE (14 SLOT)	SHEET 2 OF 2	SIZE K	CODE DD	DOCUMENT NUMBER 5418175-0-0	REV C
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K-CS-5418176-1-0-B-14.VC1
K-IF-5418176-1-0-B-1.PLO
K-ST-5418176-1-0-B-1.PLO

Last edited by WOOLIE::PVIEW 17-FEB-1988 Prev. file: K-IF-5418176-1-0-B-1

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digital

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Last edited by WOOLIE::PVIEW 17-FEB-1988 Prev. file: K-ST-5418176-1-0.B-1

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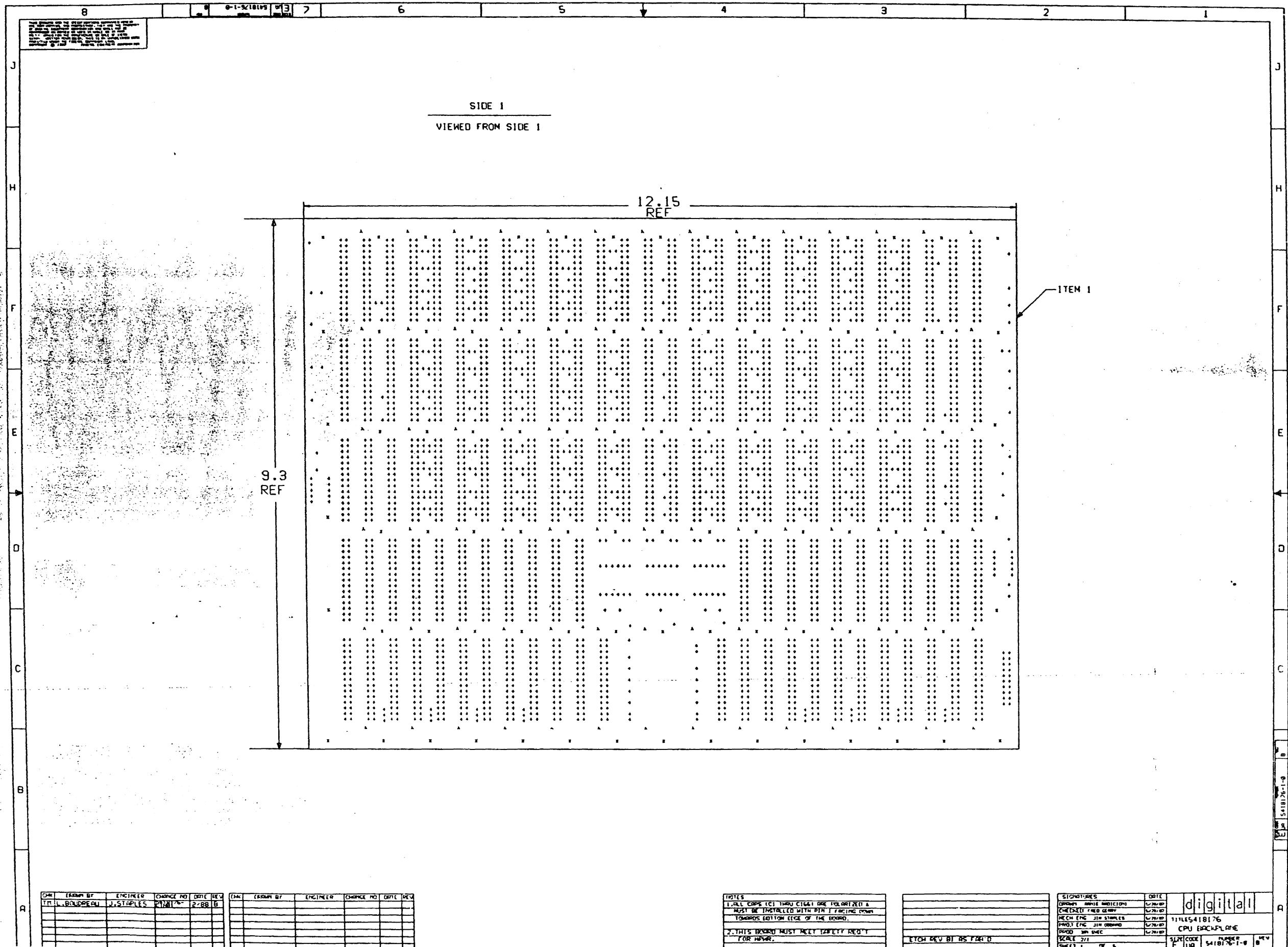
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DOC_NUMBER= K-ST-5418176-1-0

DOC_REV B



CHK	EXAM BY	ENGINEER	CHANGE NO	DATE	REV	CHK	EXAM BY	ENGINEER	CHANGE NO	DATE	REV
	TR L. BLODGEN	J. STAPLES	2-88	8							

NOTES
 1. ALL COPS (C) THRU C1641 ARE POLARIZED & MUST BE INSTALLED WITH STRIP FACING DOWN TOWARDS BOTTOM EDGE OF THE BOARD.
 2. THIS BOARD MUST MEET SAFETY REQ 1 FOR M54R.

ETCH DEV BY RS FZC'D

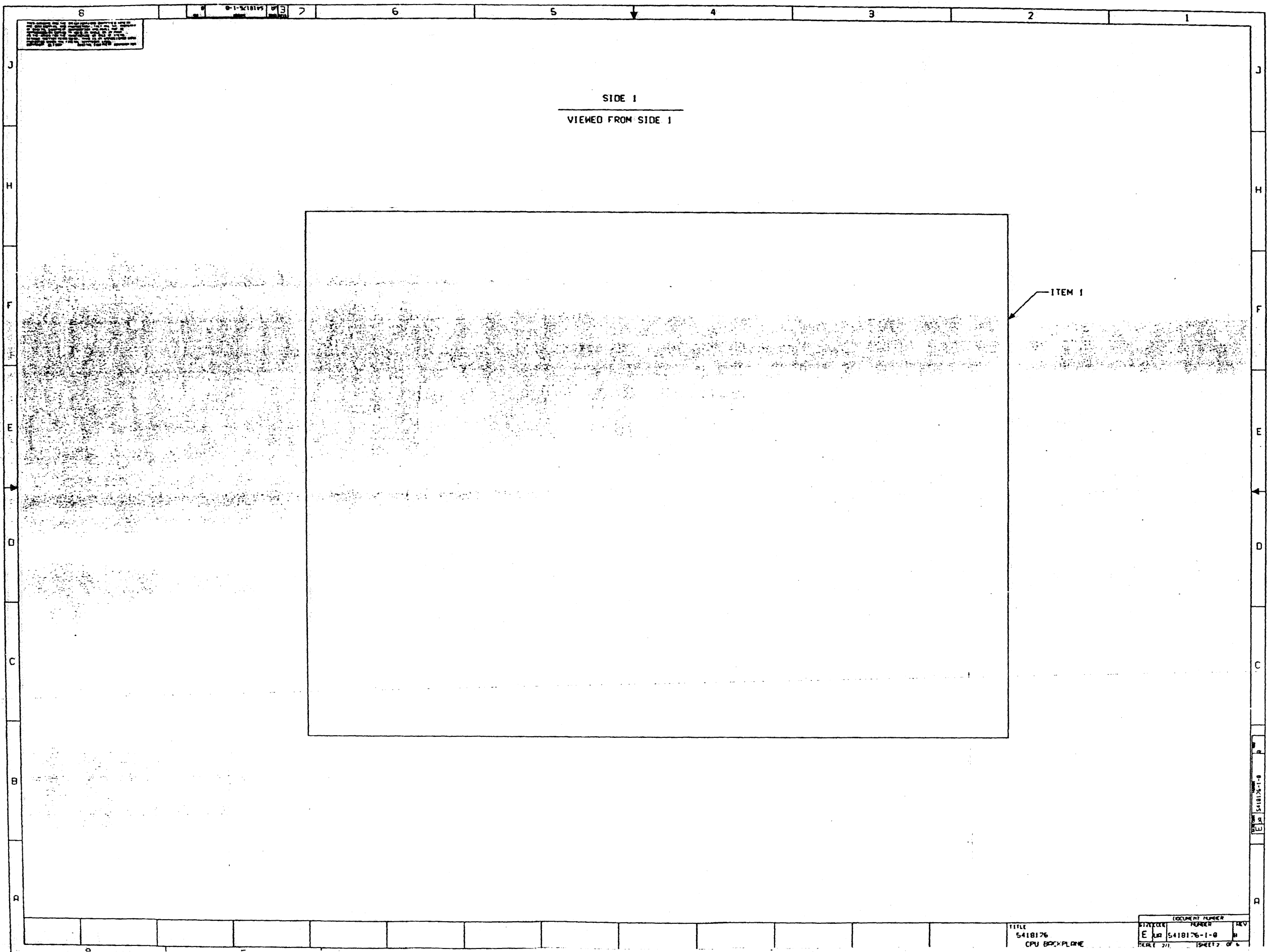
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CHECKED	
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PROD	
SCALE 2/1	
SHEET 1 OF 5	
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digital

11165418176 CPU BACKPLANE

SLICE CODE E L14 NUMBER 5418176-1-0 REV B

5418176-1-0



SIDE 1
 VIEWED FROM SIDE 1

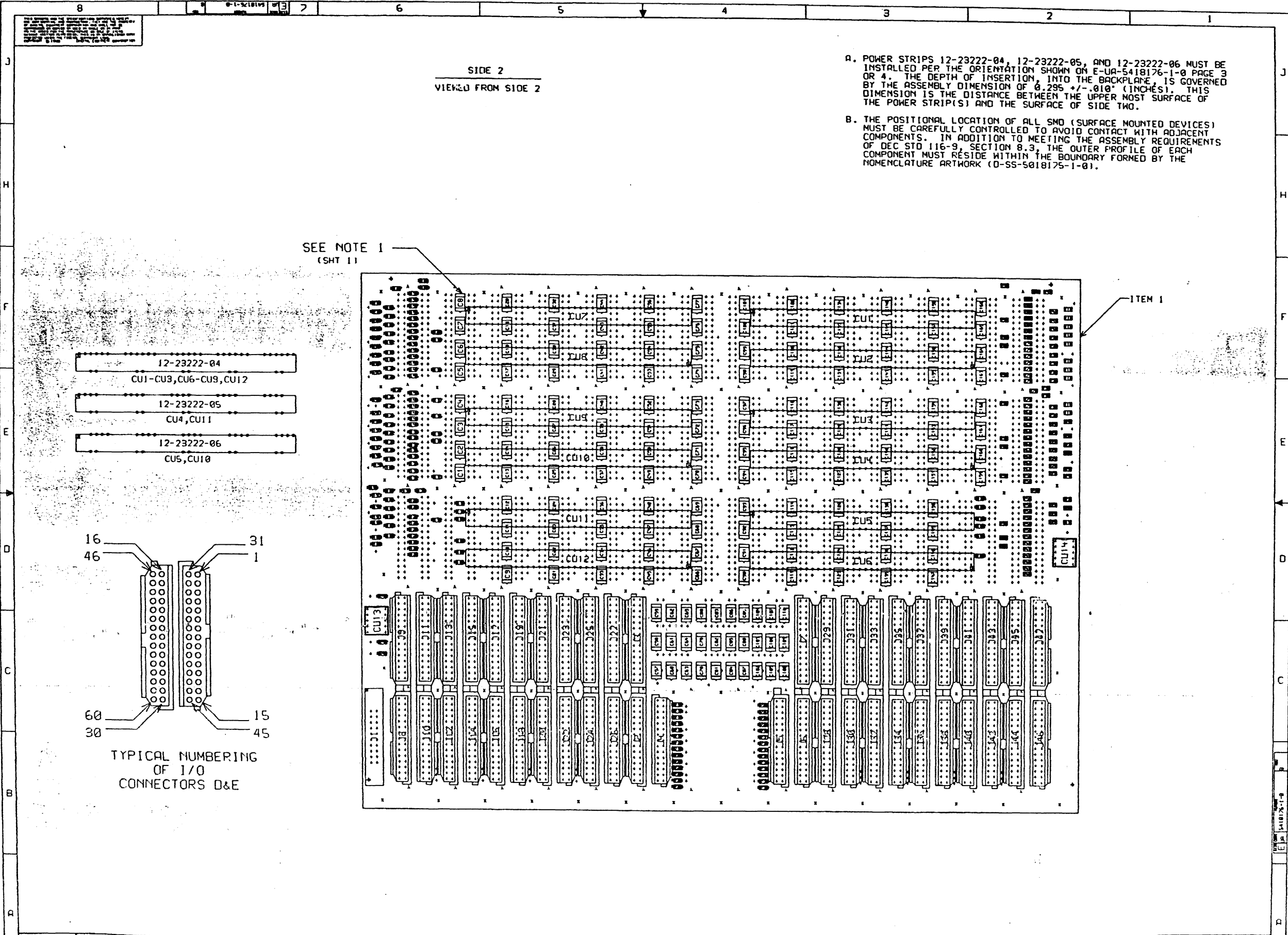
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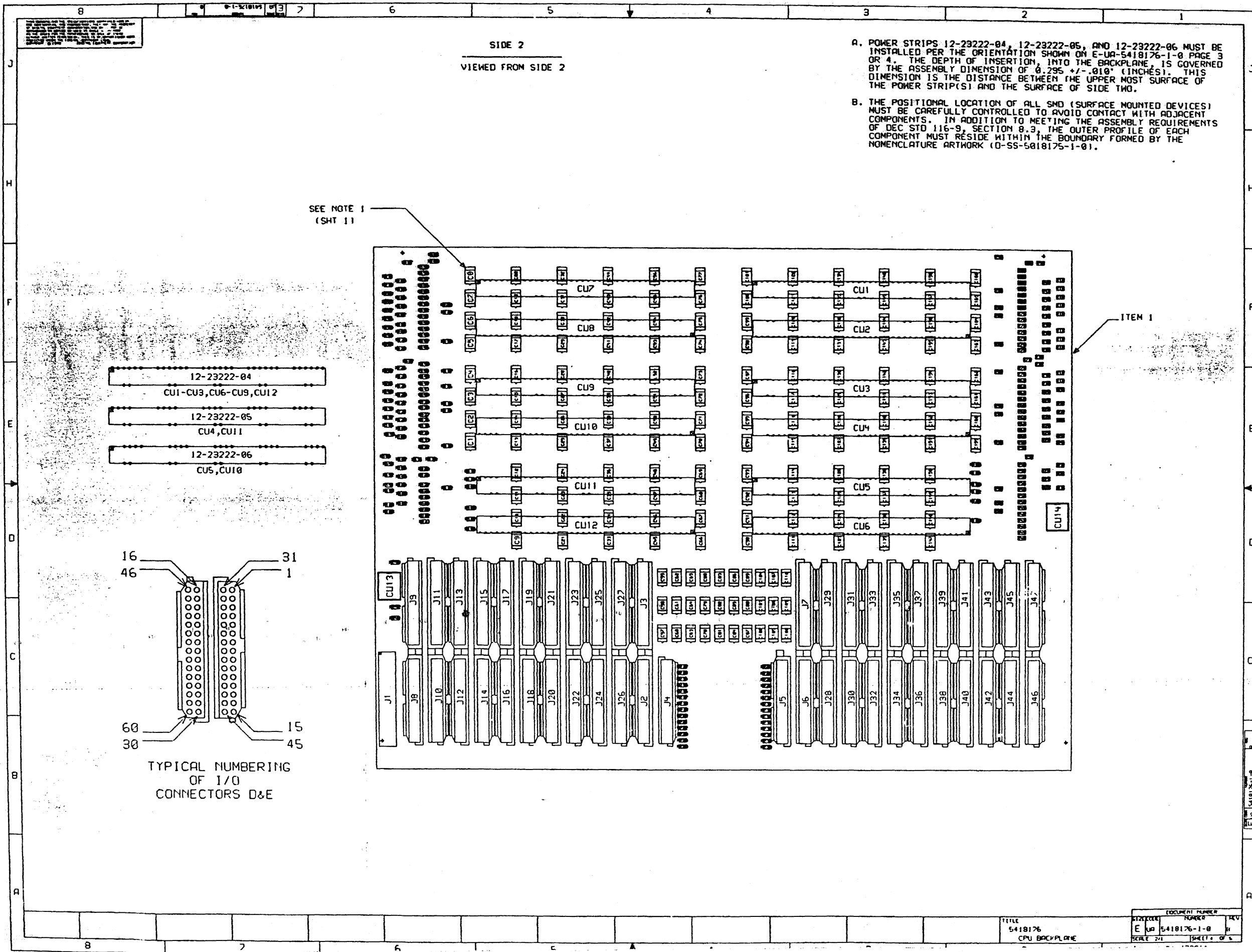
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CPU BACKPLANE		SHEET 2 OF 6			



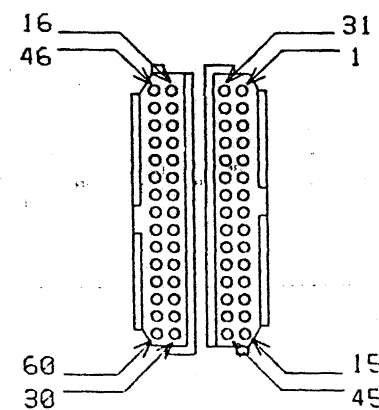
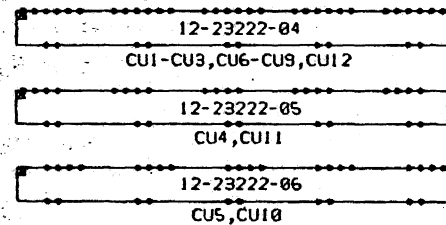
- A. POWER STRIPS 12-23222-04, 12-23222-05, AND 12-23222-06 MUST BE INSTALLED PER THE ORIENTATION SHOWN ON E-UA-5418176-1-0 PAGE 3 OR 4. THE DEPTH OF INSERTION, INTO THE BACKPLANE, IS GOVERNED BY THE ASSEMBLY DIMENSION OF 0.295 ± 0.010 (INCHES). THIS DIMENSION IS THE DISTANCE BETWEEN THE UPPER MOST SURFACE OF THE POWER STRIP(S) AND THE SURFACE OF SIDE TWO.
- B. THE POSITIONAL LOCATION OF ALL SMD (SURFACE MOUNTED DEVICES) MUST BE CAREFULLY CONTROLLED TO AVOID CONTACT WITH ADJACENT COMPONENTS. IN ADDITION TO MEETING THE ASSEMBLY REQUIREMENTS OF DEC STD 116-9, SECTION 8.3, THE OUTER PROFILE OF EACH COMPONENT MUST RESIDE WITHIN THE BOUNDARY FORMED BY THE NOMENCLATURE ARTWORK (O-SS-5018175-1-01).



SIDE 2
VIEWED FROM SIDE 2

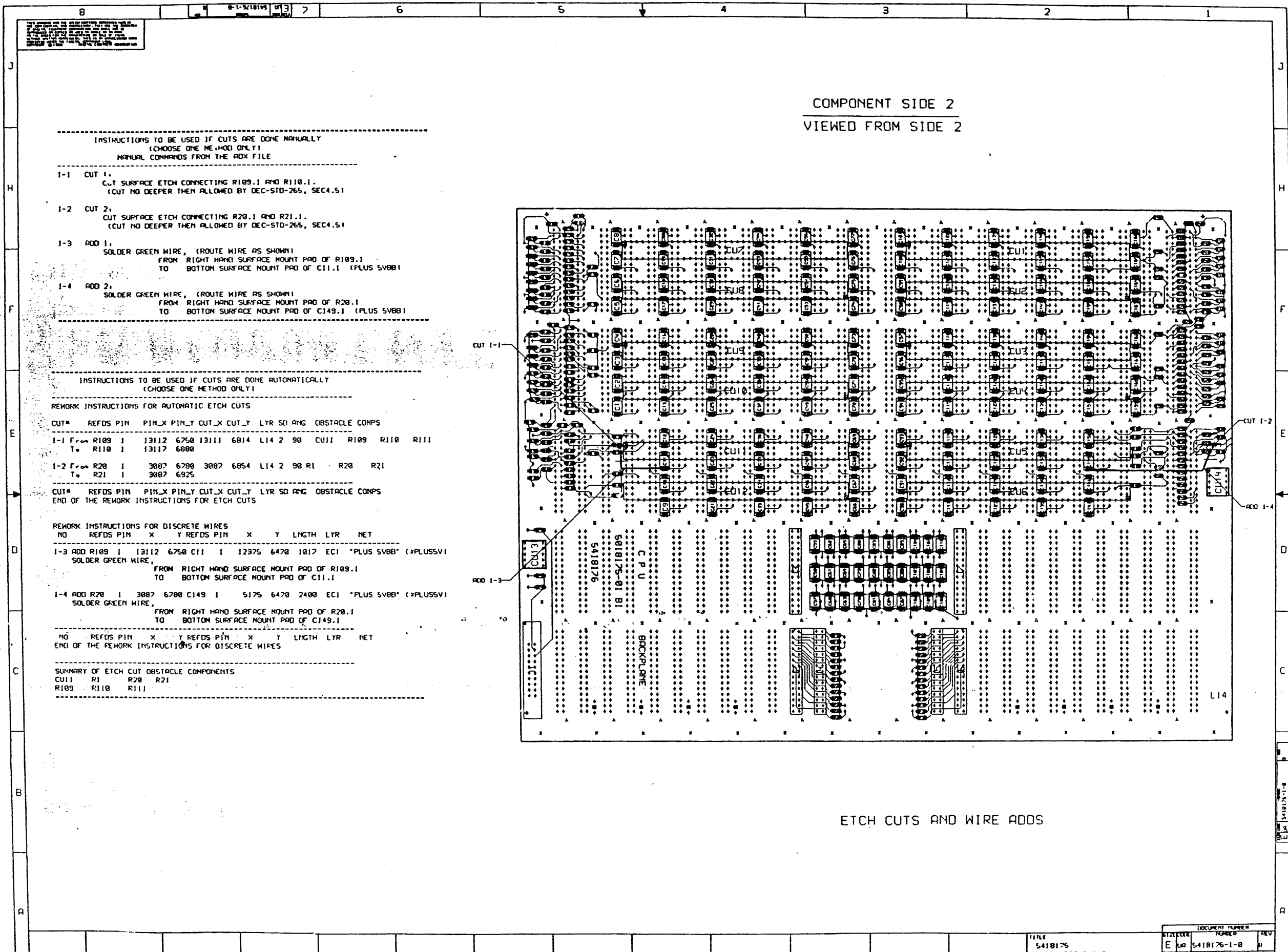
- A. POWER STRIPS 12-23222-04, 12-23222-05, AND 12-23222-06 MUST BE INSTALLED PER THE ORIENTATION SHOWN ON E-UA-5418176-1-0 PAGE 3 OR 4. THE DEPTH OF INSERTION, INTO THE BACKPLANE, IS GOVERNED BY THE ASSEMBLY DIMENSION OF 0.295 ± 0.010 (INCHES). THIS DIMENSION IS THE DISTANCE BETWEEN THE UPPER MOST SURFACE OF THE POWER STRIP(S) AND THE SURFACE OF SIDE TWO.
- B. THE POSITIONAL LOCATION OF ALL SMD (SURFACE MOUNTED DEVICES) MUST BE CAREFULLY CONTROLLED TO AVOID CONTACT WITH ADJACENT COMPONENTS. IN ADDITION TO MEETING THE ASSEMBLY REQUIREMENTS OF DEC STD 116-9, SECTION 8.3, THE OUTER PROFILE OF EACH COMPONENT MUST RESIDE WITHIN THE BOUNDARY FORMED BY THE NOMENCLATURE ARTWORK (D-SS-5018175-1-01).

SEE NOTE 1
(SHT 11)



TYPICAL NUMBERING
OF I/O
CONNECTORS D&E

ITEM 1



COMPONENT SIDE 2
VIEWED FROM SIDE 2

INSTRUCTIONS TO BE USED IF CUTS ARE DONE MANUALLY
(CHOOSE ONE METHOD ONLY)
MANUAL COMMANDS FROM THE ADX FILE

- I-1 CUT 1,
CUT SURFACE ETCH CONNECTING R109.1 AND R110.1.
(CUT NO DEEPER THEN ALLOWED BY DEC-STD-265, SEC4.51)
- I-2 CUT 2,
CUT SURFACE ETCH CONNECTING R20.1 AND R21.1.
(CUT NO DEEPER THEN ALLOWED BY DEC-STD-265, SEC4.51)
- I-3 PAD 1,
SOLDER GREEN WIRE, (ROUTE WIRE AS SHOWN)
FROM RIGHT HAND SURFACE MOUNT PAD OF R109.1
TO BOTTOM SURFACE MOUNT PAD OF C11.1 (PLUS 5V001)
- I-4 PAD 2,
SOLDER GREEN WIRE, (ROUTE WIRE AS SHOWN)
FROM RIGHT HAND SURFACE MOUNT PAD OF R20.1
TO BOTTOM SURFACE MOUNT PAD OF C149.1 (PLUS 5V001)

INSTRUCTIONS TO BE USED IF CUTS ARE DONE AUTOMATICALLY
(CHOOSE ONE METHOD ONLY)

REWORK INSTRUCTIONS FOR AUTOMATIC ETCH CUTS

CUT#	REFDS	PIN	PIN_X	PIN_Y	CUT_X	CUT_Y	LYR	SD	ANG	OBSTACLE	COMPS	
I-1	From	R109	1	13112	6750	13111	6814	L14	2	90	CUT1	R109 R110 R111
	To	R110	1	13117	6800							
I-2	From	R20	1	3087	6700	3087	6854	L14	2	90	R1	R20 R21
	To	R21	1	3087	6925							

CUT# REFDS PIN PIN_X PIN_Y CUT_X CUT_Y LYR SD ANG OBSTACLE COMPS
END OF THE REWORK INSTRUCTIONS FOR ETCH CUTS

REWORK INSTRUCTIONS FOR DISCRETE WIRES

NO	REFDS	PIN	X	Y	REFDS	PIN	X	Y	LNTH	LYR	NET
I-3	ADD	R109	1	13112	6750	C11	1	12975	6470	1017	EC1 "PLUS 5V001" (*PLUS5V1)
											SOLDER GREEN WIRE, FROM RIGHT HAND SURFACE MOUNT PAD OF R109.1 TO BOTTOM SURFACE MOUNT PAD OF C11.1
I-4	ADD	R20	1	3087	6700	C149	1	5175	6470	2400	EC1 "PLUS 5V001" (*PLUS5V1)
											SOLDER GREEN WIRE, FROM RIGHT HAND SURFACE MOUNT PAD OF R20.1 TO BOTTOM SURFACE MOUNT PAD OF C149.1

NO REFDS PIN X Y REFDS PIN X Y LNTH LYR NET
END OF THE REWORK INSTRUCTIONS FOR DISCRETE WIRES

SUMMARY OF ETCH CUT OBSTACLE COMPONENTS
CUT1 R1 R20 R21
R109 R110 R111

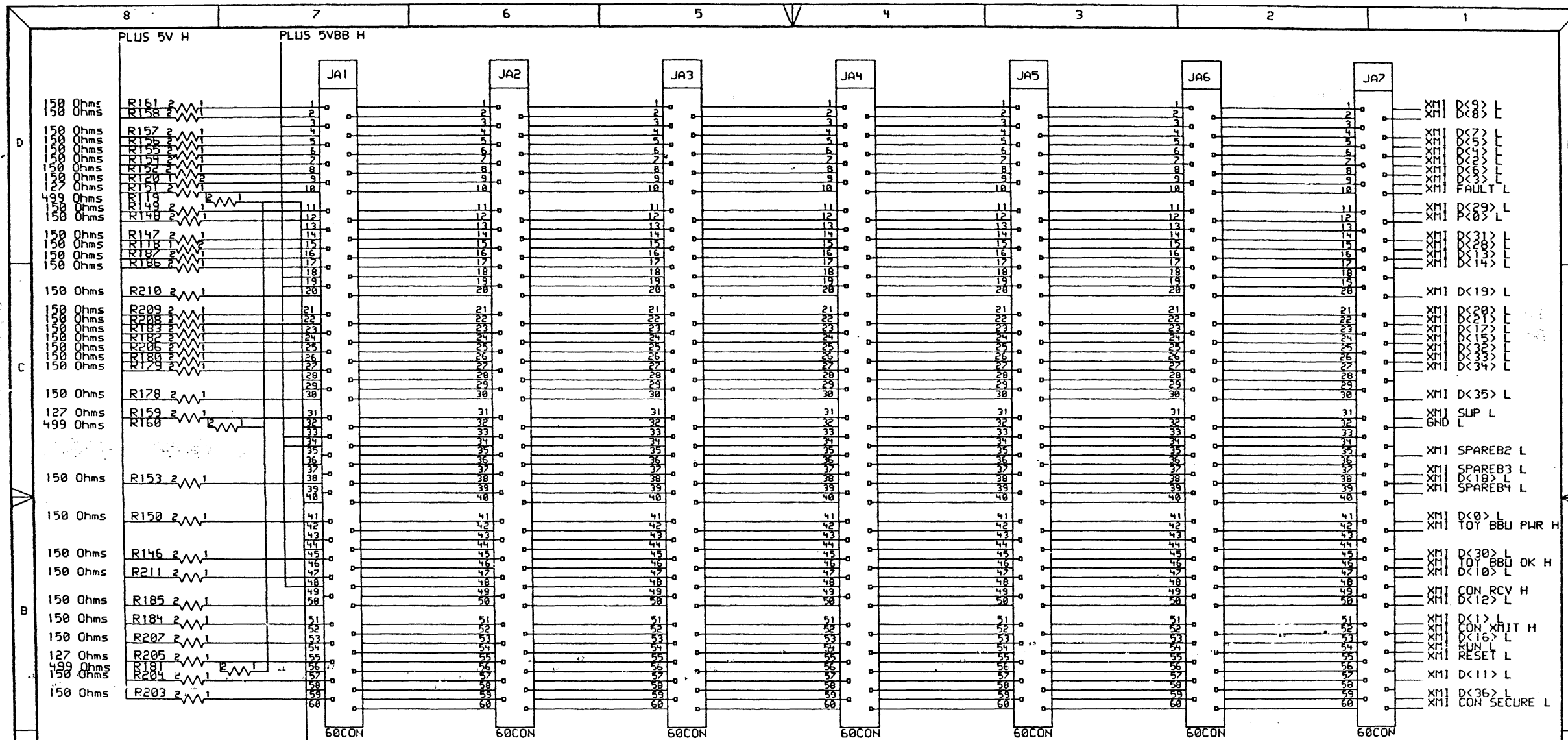
ETCH CUTS AND WIRE ADDS

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1		50-18175-01		DRILL AND ETCH BOARD	1	
2	2		10-24455-26		68 MFD 6.0V +/-20% CHI	166	C1-C166
3	3		12-17919-01		CONN,POWER 10PIN	2	CU13, CU14
4	4		12-20547-07		PCB HEADER 20POS(2X10), 100CC STR	1	J1
5	5		12-23222-04		BACKPLANE POWER STRIP 40PIN	8	CU1-CU3, CU6-CU9, CU12
6	6		12-23222-05		BACKPLANE POWER STRIP 30PIN	2	CU4, CU11
7	7		12-23222-06		BACKPLANE POWER STRIP 30PIN	2	CU5, CU10
8	8	SEE NOTE # 8	12-27111-01		PCB HEADER 30POS(02X15), 100CC	46	J2-J47
9	9		13-23828-11		127.0 .25 W 1.0 % CHIP	28	R20, R21, R28, R38, R43, R91, R94, CONT R95, R100-R105, R109, R110, R140, CONT R151, R159, R166, R188, R190-R194, CONT R202, R205
10	10		13-23828-18	150.0	.25 W 1.0 % CHIP	154	R3-R19, R22-R26, R29-R36, R39-R41, CONT R44-R52, R54, R57, R58, R60-R70, CONT R72-R87, R92, R93, R97-R99, R106, CONT R107, R111, R113, R115-R118, CONT R120-R125, R127, R128, R132-R139, CONT R141-R150, R152-R158, R161, R165, CONT R168-R174, R176-R180, R182-R187, CONT R189, R195-R201, R203, R204, CONT R206-R211
11	11		13-23828-68	499.0	.25 W 1.0 % CHIP	28	R1, R2, R27, R37, R42, R53, R55, R56, CONT R59, R71, R88-R90, R96, R112, R114, CONT R119, R126, R129-R131, R160, CONT R162-R164, R167, R175, R181 R108, R212-R242
12	12		13-23829-01	1.00 K	.25 W 1.0 % CHIP	32	
13	13		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14 A/R		

8 NOTE: ITEM #8, J8-J47 ARE NOT REFERENCED IN VLS DATABASE, BUT ARE REAL 54 LEVEL PARTS.

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: C. HARTEL		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D:	T. MCCULLOUGH	DATE:	15-FEB-88	TITLE	PARTS LIST
JO	INITIAL	A	(A) 01 (M)	DATE:	15-FEB-88	DATE:	15-FEB-88	CPU BACKPLANE	(14 SLOT)
JO	ULTNO01	B	(B) (N)	DES.ENG:	J. STAPLES	DATE:	15-FEB-88	DOCUMENT NUMBER	
			(C) (P)	RESP.ENG.:	J. OGBARD	DATE:	15-FEB-88	SIZE	CODE
			(D) (Q)	DATE:	15-FEB-88	PL	5418176-1-DBP	NUMBER	REV
			(E) (R)	MFG.ENG:	J. SVEC	RELEASE DATE:	29-MAR-88		
			(F) (S)	DATE:	15-FEB-88	RELEASE STATUS:	RELEASED		
			(H) (T)						
			(J) (V)						
			(K) (W)						
			(L) (Y)						
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
5418176		E-UA 5418176-1-0		K-00-5418176-0-0		5418176C1.PLS		4	

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CONNECTORS JA1 - JA7

MODULE REV. C1

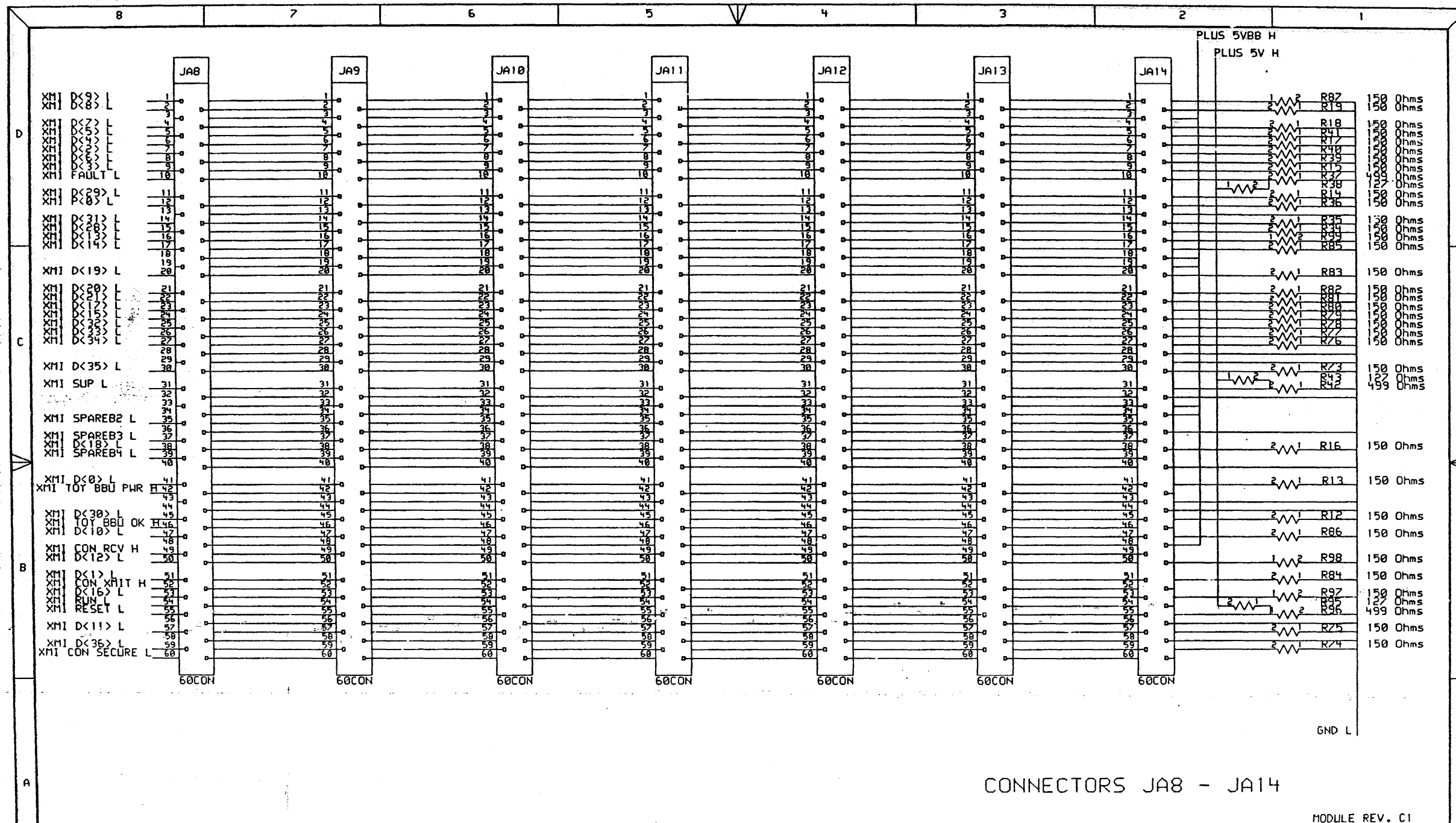
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REVISION HISTORY			DRAWING	DEFINE
REV	ECO NUMBER	DATE		
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LAST_MODIFIED=Wed Nov 25 08:58:19 1987				

digital

DRN:	DATE	ENG 1	DATE
J.P.COYLE	12-FEB-87	J.STAPLES	12-FEB-87
CHK'D:	DATE	SHEET 1	OF 1
D. BLANCHARD	24-NOV-87	NEXT HIGHER ASSEMBLY:	
		K-DD-5418176-0-0	

TITLE: XMI BACKPLANE 14 SLOT			
SIZE	CODE	NUMBER	REV
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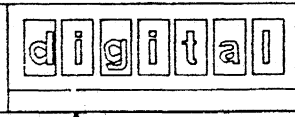
CONNECTORS JA8 - JA14

MODULE REV. C1

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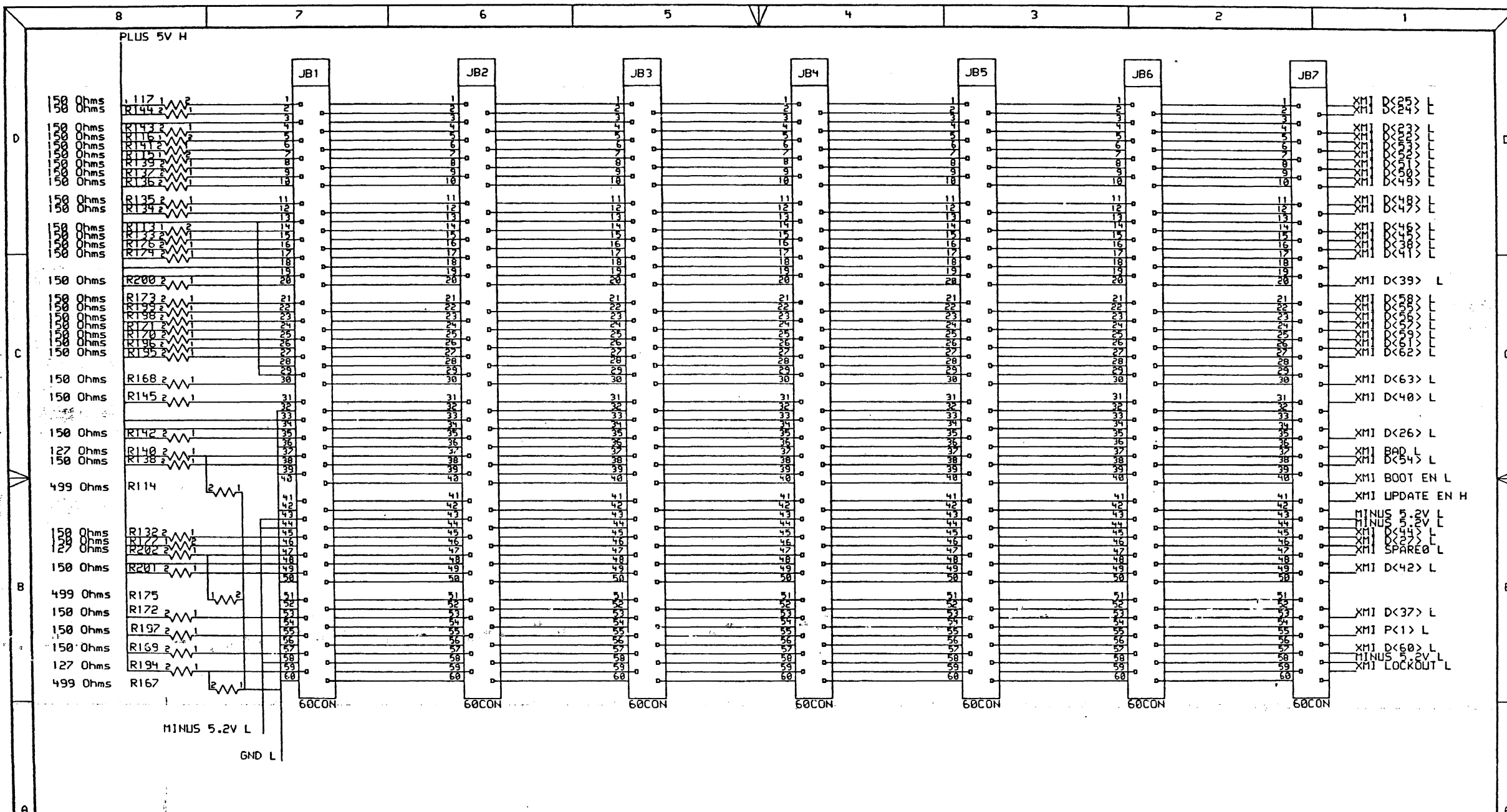


DRN: J.P. COYLE
CHK'D: D. BLANCHARD

DATE 12-FEB-87
DATE 24-NOV-87

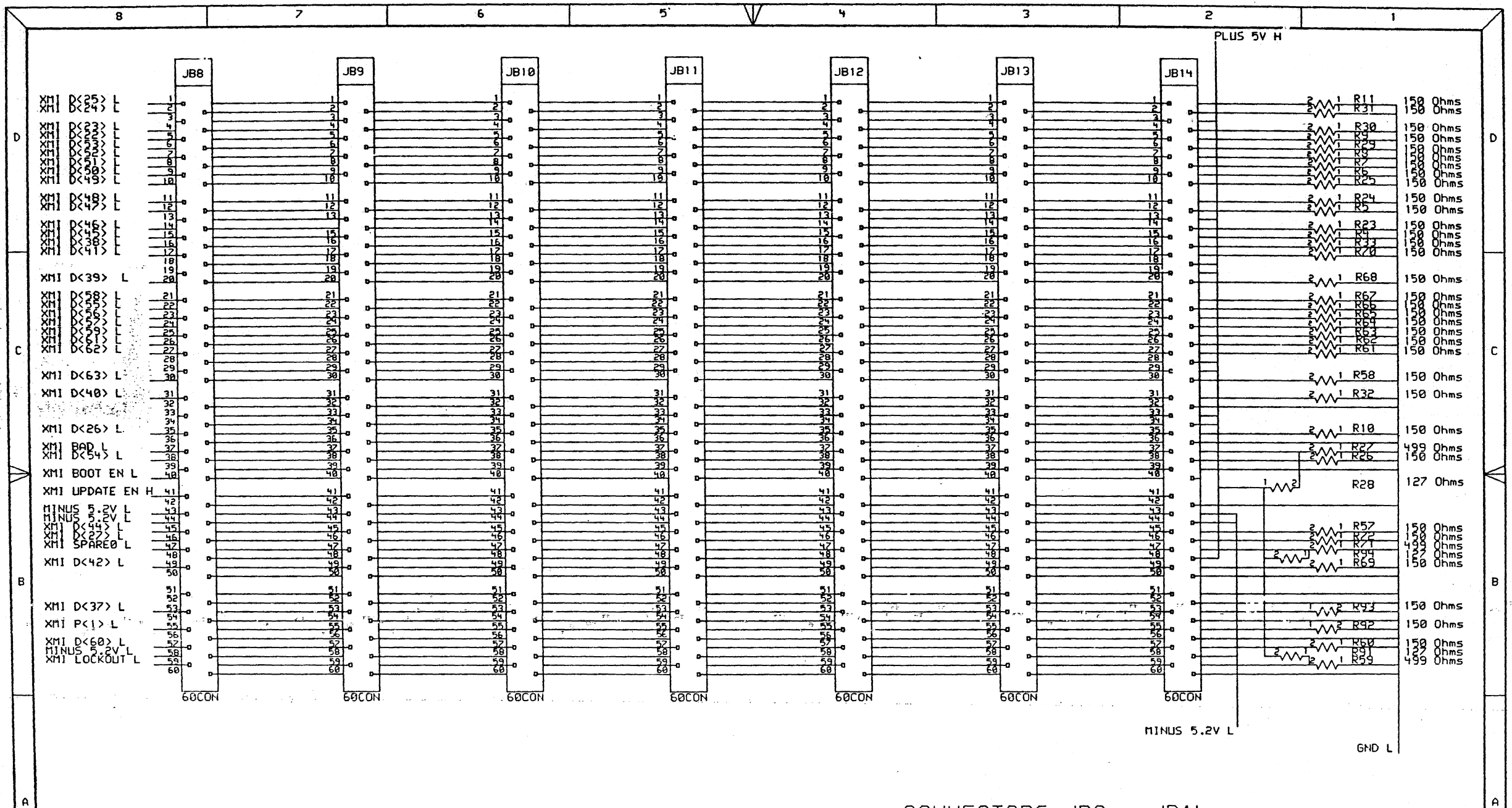
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SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0

DATE 12-FEB-87
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SIZE K CODE CS NUMBER 5418176-1-0002 REV B



CONNECTORS JB1 - JB7
MODULE REV. C1

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						CHK'D: G. BLANCHARD	DATE 24-NOV-87	SHEET 1 OF 1 NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0	SIZE K	CODE CS	NUMBER 5418176-1-0003	REV B



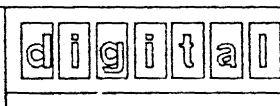
CONNECTORS JB8 - JB14

MODULE REV. C1

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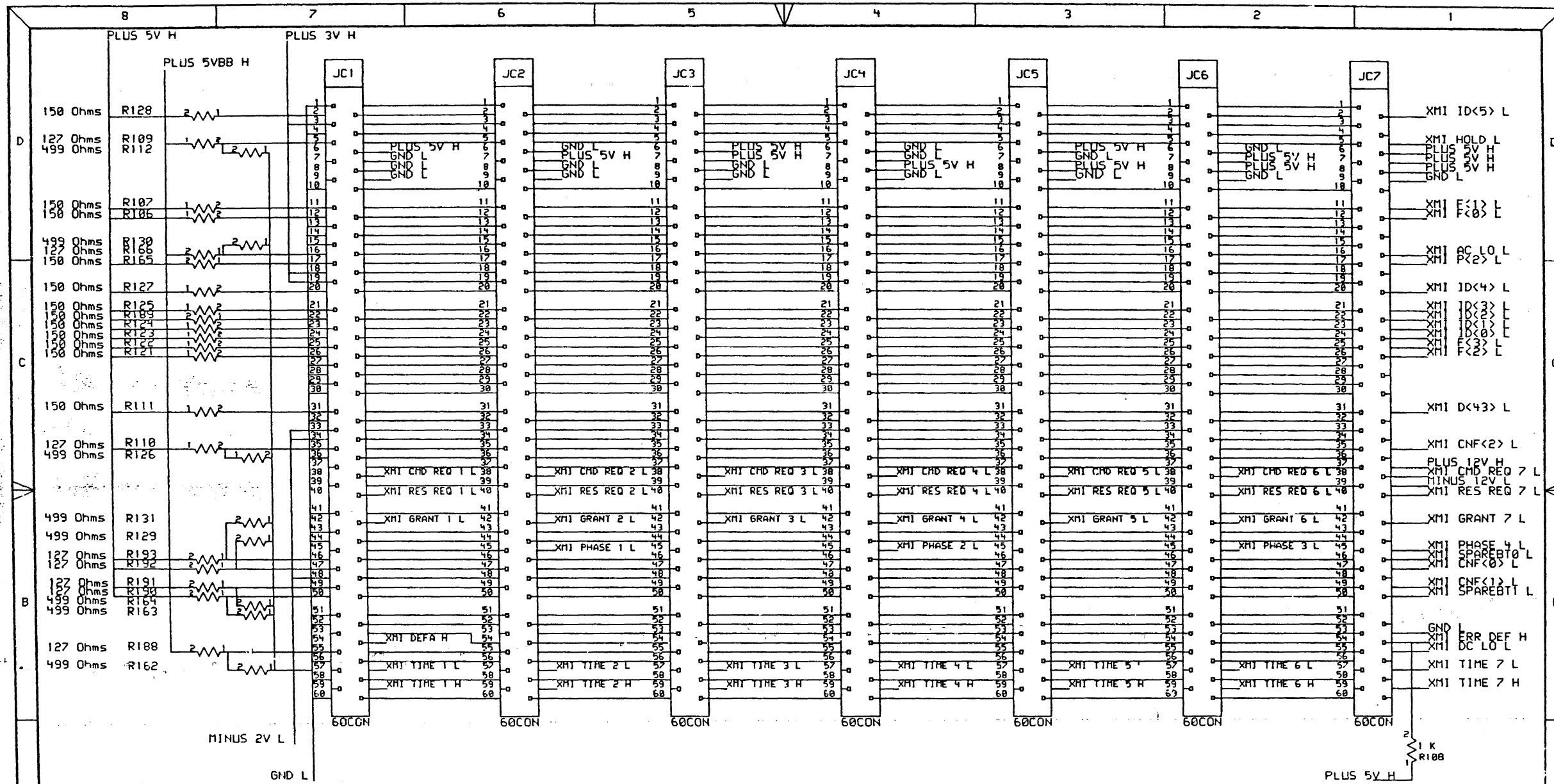
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DRN: J.P.COYLE	DATE 12-FEB-87	ENG: J.STAPLES	DATE 12-FEB-87
CHK'D: D.BLANCHARD	DATE 24-NOV-87	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0

TITLE: XMI BACKPLANE 14 SLOT	SIZE K	CODE CS	NUMBER 5418176-1-0004	REV B
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NOTE:
PINS 6, 7, 8, and 9 are the
ID PINS used to define slot IDs.

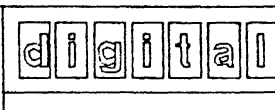
CONNECTORS JC1 - JC7

MODULE REV. C1

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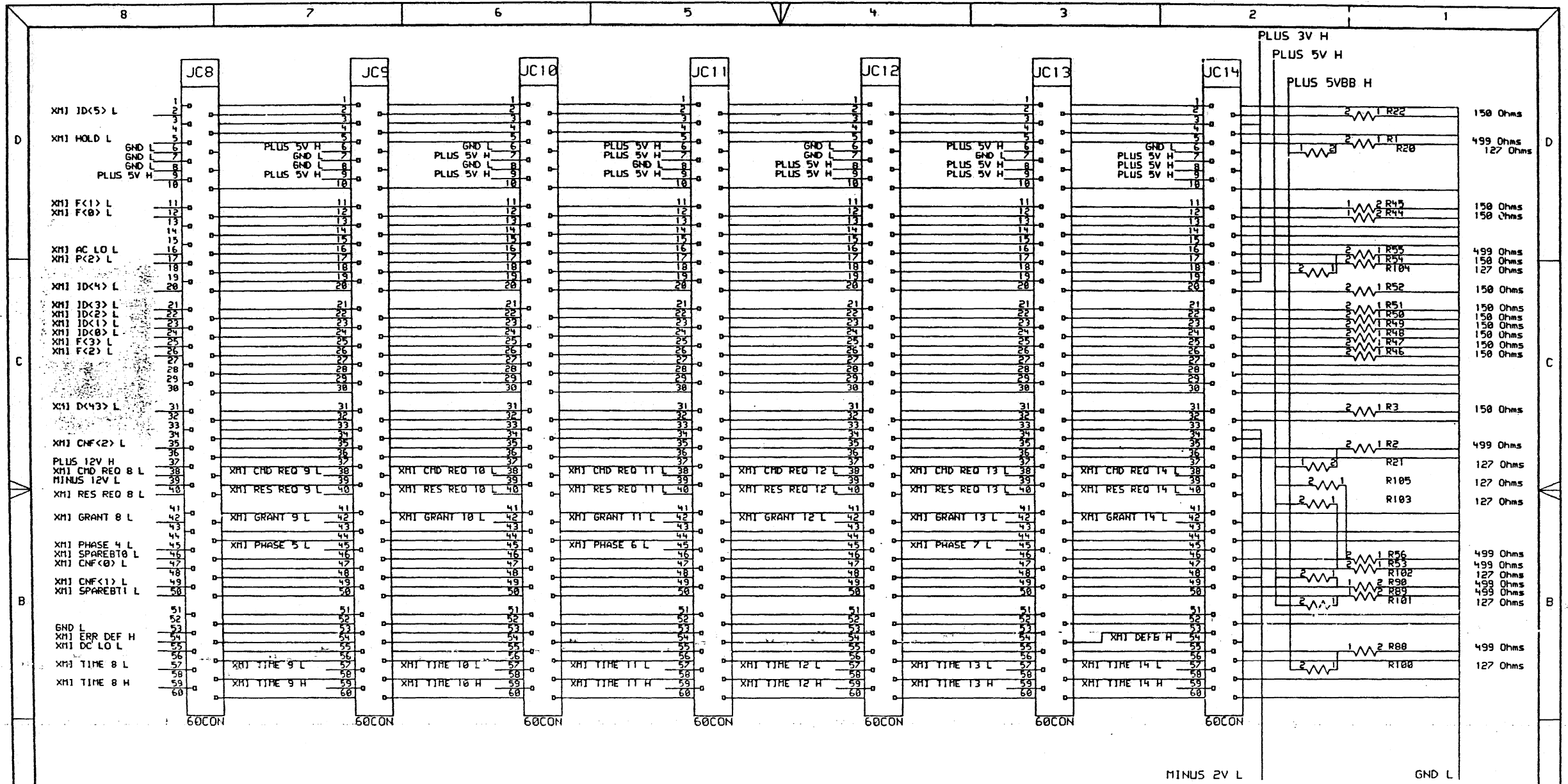


DRN:
J.P.COYLE
CHK'D:
D. BLANCHARD

DATE
12-FEB-87
DATE
24-NOV-87

ENG:
J.STAPLES
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:
K-DD-5418176-0-0

TITLE: XMI BACKPLANE
14 SLOT
SIZE CODE NUMBER REV
K CS 5418176-1-0005 B



NOTE:
PINS 6, 7, 8, and 9 are the
ID PINS used to define slot IDs.

CONNECTORS JC8 - JC14

MODULE REV. C1

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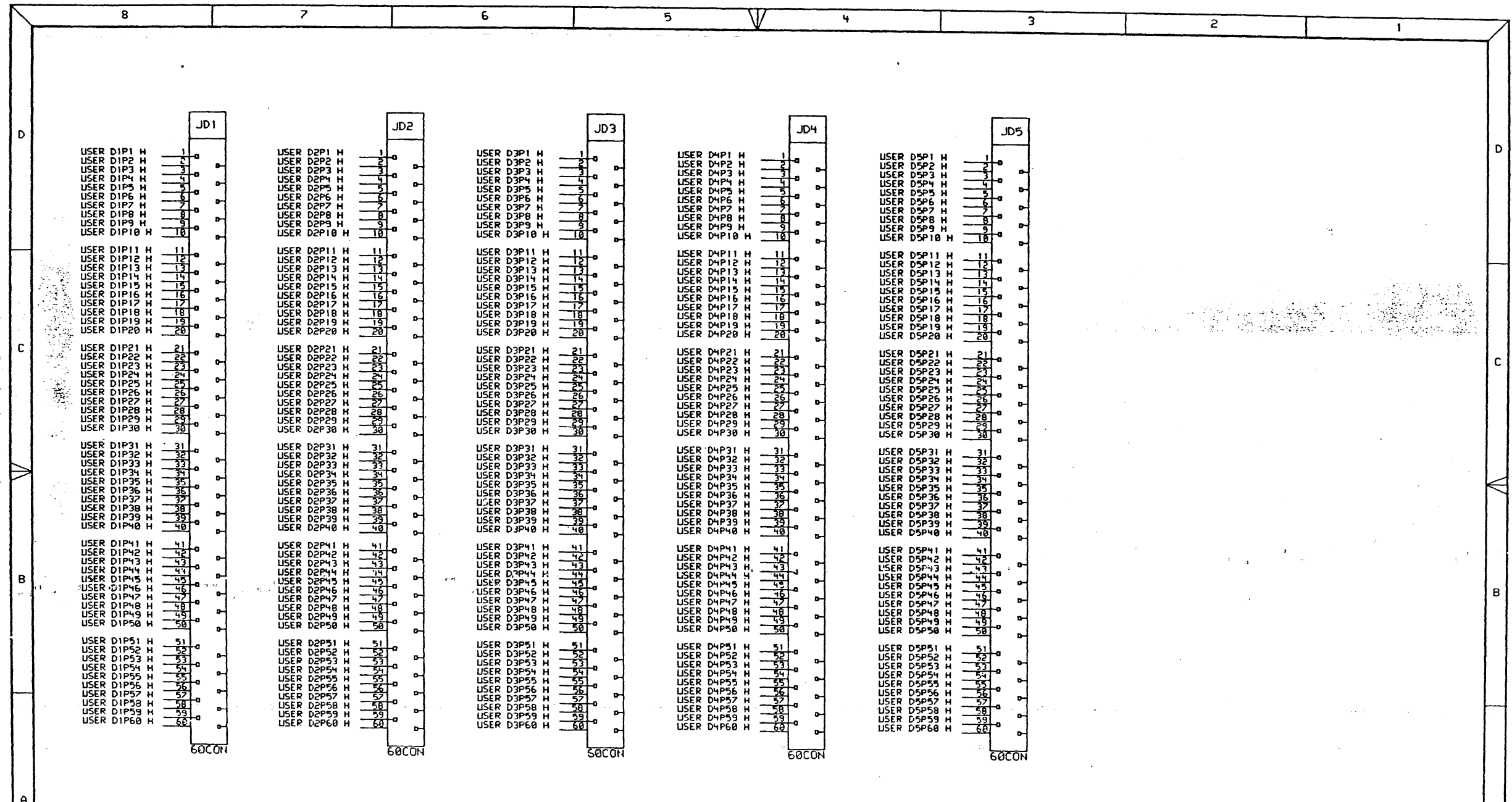


DRN:
J.P.COYLE
CHK'D:
D. BLANCHARD

DATE
12-FEB-87
DATE
24-NOV-87

ENG:
J.STAPLES
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:
K-DD-5418176-0-0

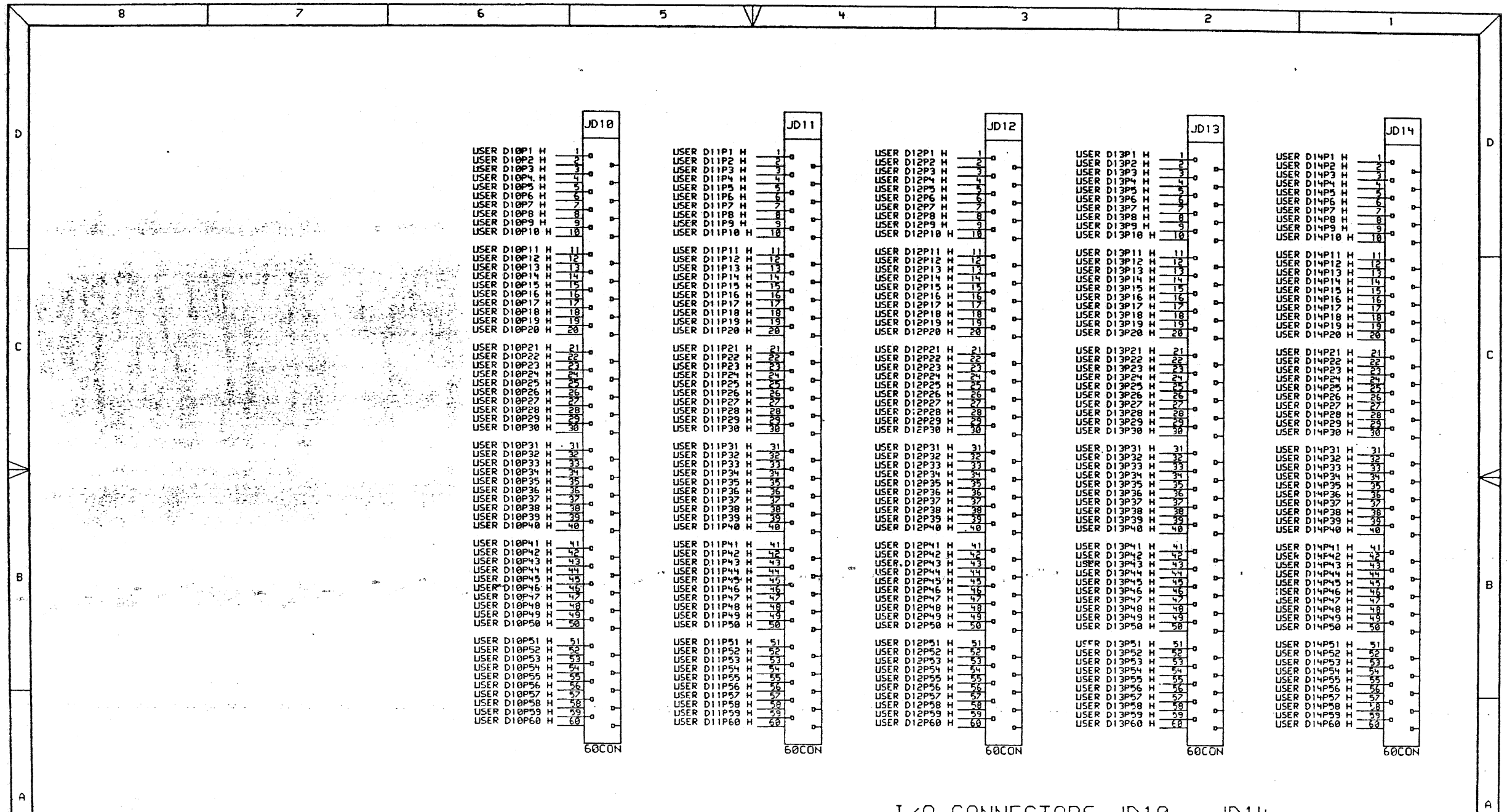
TITLE: XMI BACKPLANE 14 SLOT
SIZE CODE NUMBER REV
K CS 5418176-1-0006 B



I/O CONNECTORS JD1 - JD5

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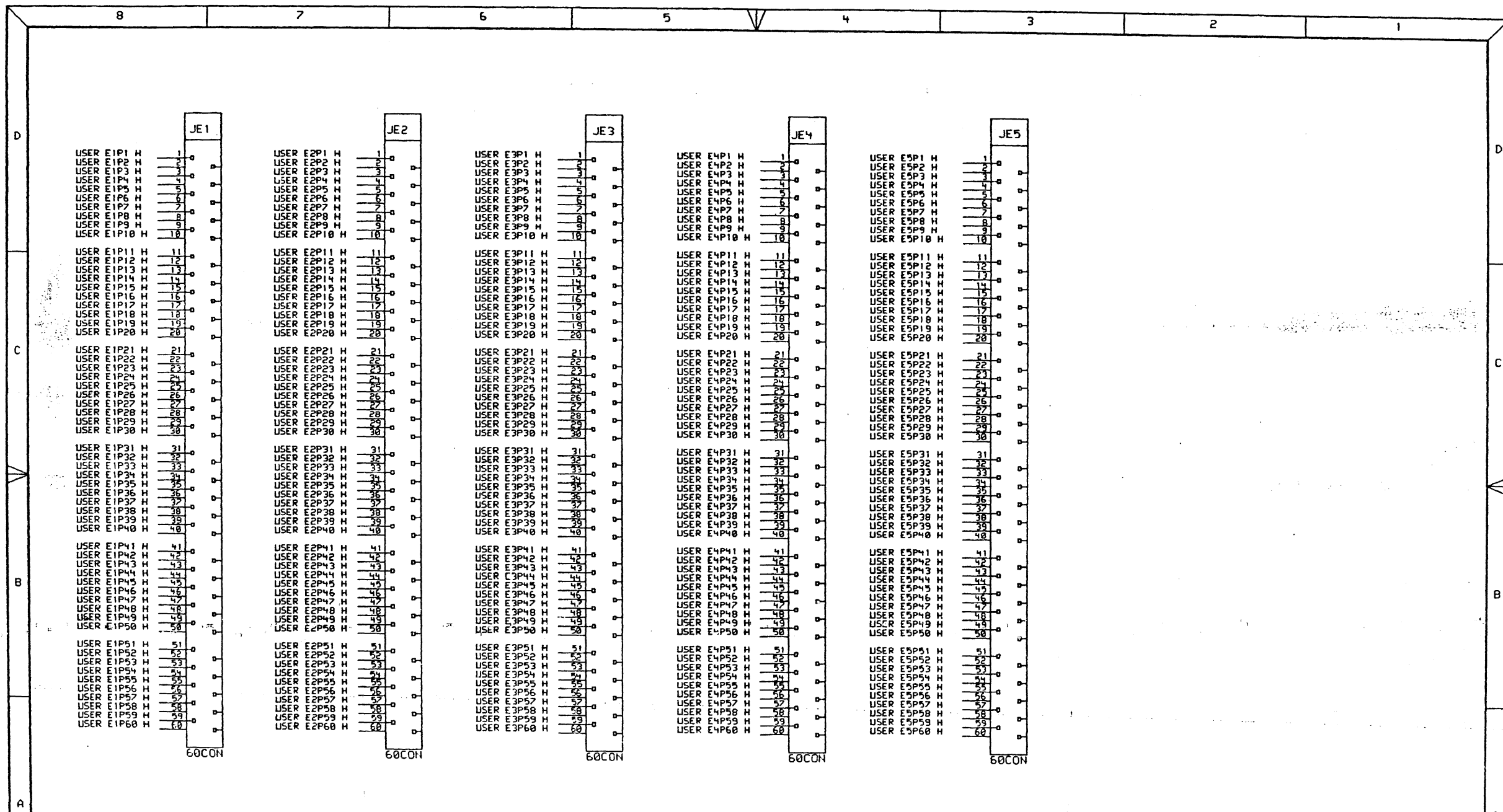
MODULE REV. C1



I/O CONNECTORS JD10 - JD14

MODULE REV. C1

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						CHK'D: D. BLANCHARD	DATE: 24-NOV-87	SHEET 1 OF 1 NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0		SIZE: K	CODE: CS	NUMBER: 5418176-1-0008
												REV: B



I/O CONNECTORS JE1 - JE5

MODULE REV. C1

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REVISION HISTORY		
REV	REQ NUMBER	DATE

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 LAST_MODIFIED=Wed Nov 25 09:16:37 1987



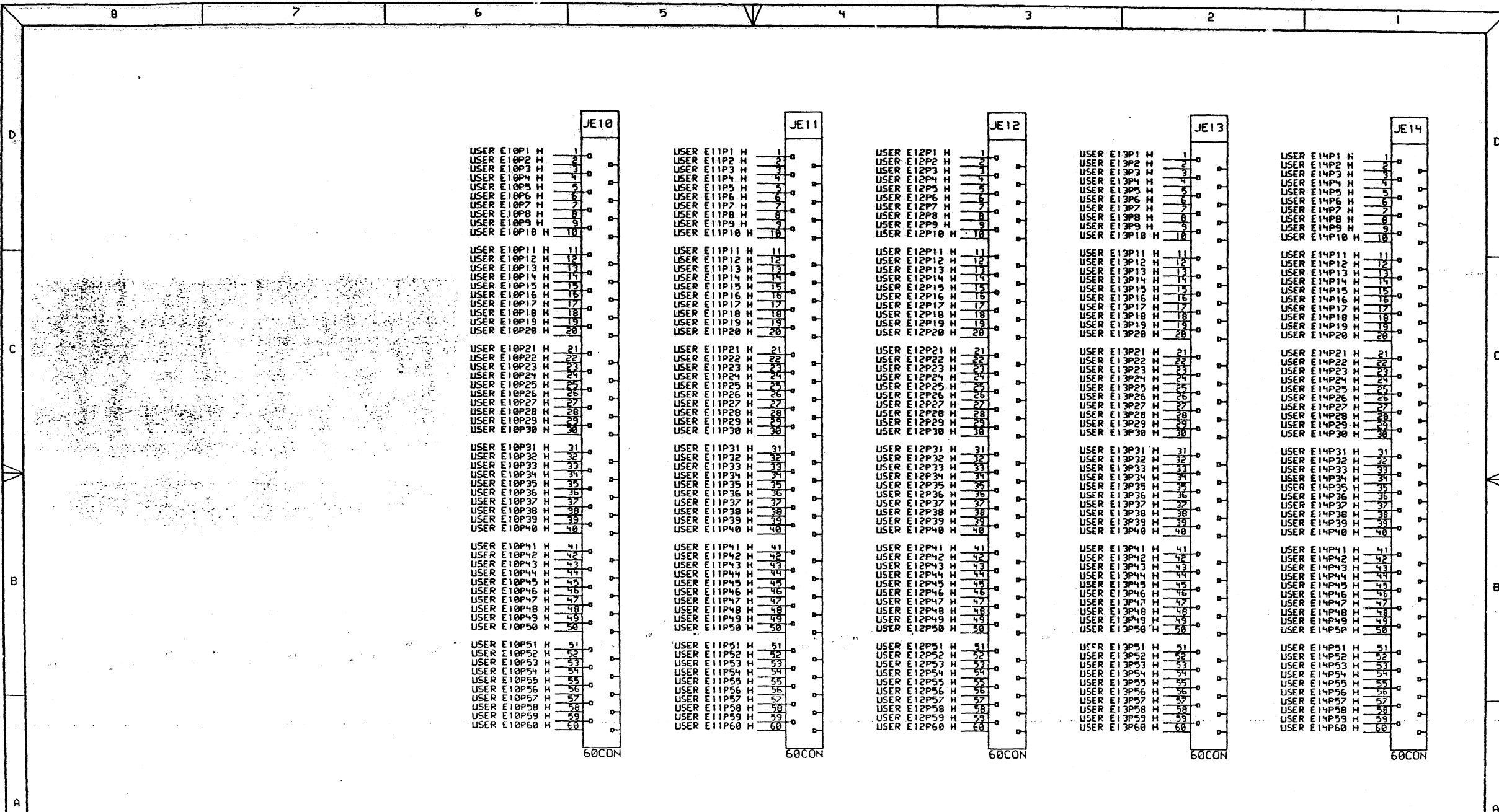
DRN: J.P.COYLE
 CHK'D: O. BLANCHARD

DATE 12-FEB-87
 DATE 24-NOV-87

ENG: J.STAPLES
 SHEET 1 OF 1
 NEXT HIGHER ASSEMBLY:
 K-DD-5418176-0-0

TITLE: XMI BACKPLANE
 14 SLOT
 SIZE CODE NUMBER
 K CS 5418176-1-0009

REV B



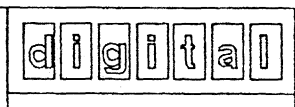
I/O CONNECTORS JE10 - JE14

MODULE REV. C1

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REV	ECO NUMBER	DATE

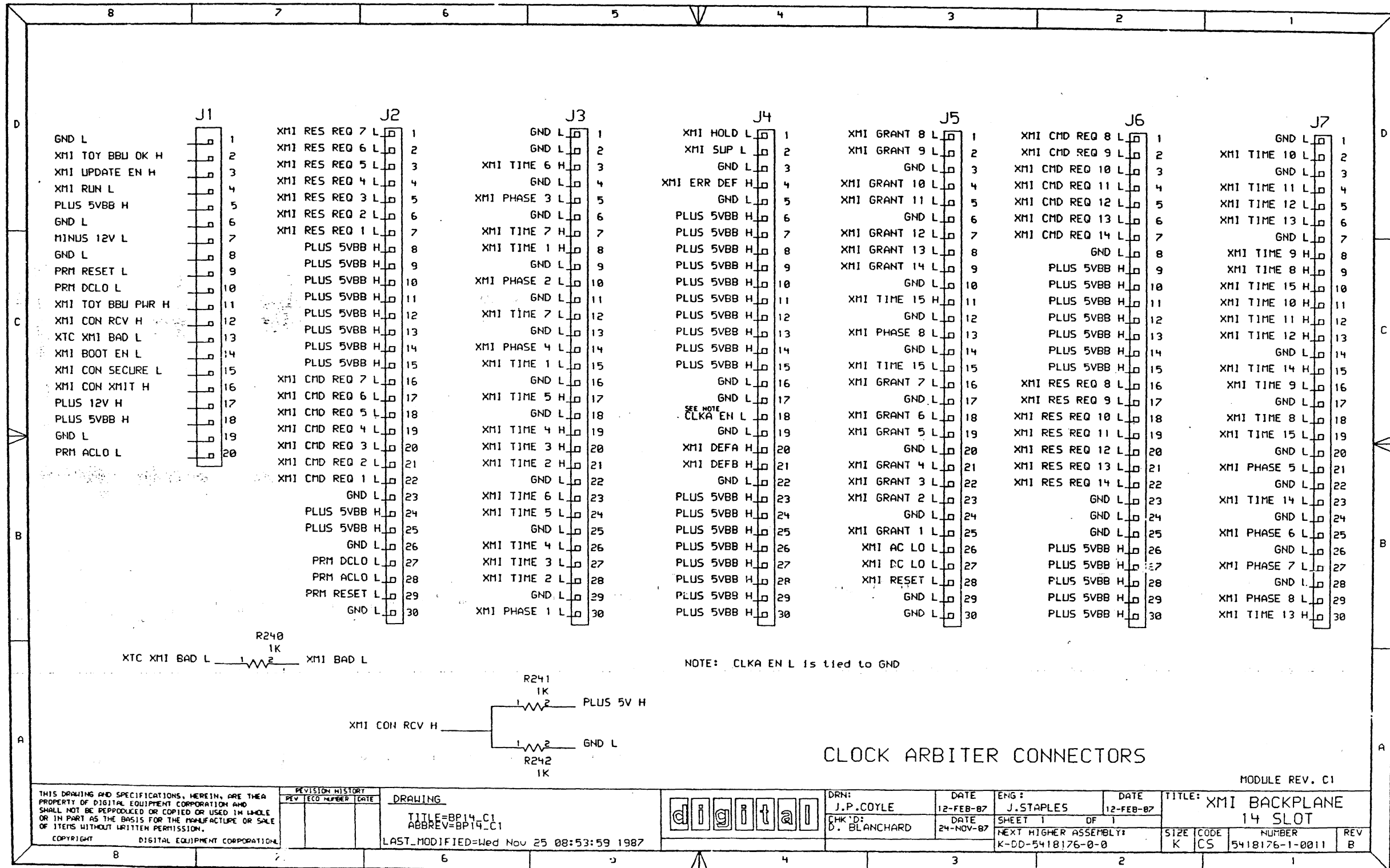
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DRN:
 J.P. COYLE
 DATE 12-FEB-87
 CHK'D:
 D. BLANCHARD
 DATE 24-NOV-87

ENG:
 J. STAPLES
 DATE 12-FEB-87
 SHEET 1 OF 1
 NEXT HIGHER ASSEMBLY:
 K-DD-5418176-0-0

TITLE: XMI BACKPLANE
 14 SLOT
 SIZE CODE NUMBER REV
 K CS 5418176-1-0010 B



- J1**
- 1 GND L
 - 2 XMI TOY BBU OK H
 - 3 XMI UPDATE EN H
 - 4 XMI RUN L
 - 5 PLUS 5VBB H
 - 6 GND L
 - 7 MINUS 12V L
 - 8 GND L
 - 9 PRM RESET L
 - 10 PRM DCLO L
 - 11 XMI TOY BBU PWR H
 - 12 XMI CON RCV H
 - 13 XTC XMI BAD L
 - 14 XMI BOOT EN L
 - 15 XMI CON SECURE L
 - 16 XMI CON XMIT H
 - 17 PLUS 12V H
 - 18 PLUS 5VBB H
 - 19 GND L
 - 20 PRM ACLO L

- J2**
- 1 XMI RES REQ 7 L
 - 2 XMI RES REQ 6 L
 - 3 XMI RES REQ 5 L
 - 4 XMI RES REQ 4 L
 - 5 XMI RES REQ 3 L
 - 6 XMI RES REQ 2 L
 - 7 XMI RES REQ 1 L
 - 8 PLUS 5VBB H
 - 9 PLUS 5VBB H
 - 10 PLUS 5VBB H
 - 11 PLUS 5VBB H
 - 12 PLUS 5VBB H
 - 13 PLUS 5VBB H
 - 14 PLUS 5VBB H
 - 15 PLUS 5VBB H
 - 16 XMI CMD REQ 7 L
 - 17 XMI CMD REQ 6 L
 - 18 XMI CMD REQ 5 L
 - 19 XMI CMD REQ 4 L
 - 20 XMI CMD REQ 3 L
 - 21 XMI CMD REQ 2 L
 - 22 XMI CMD REQ 1 L
 - 23 GND L
 - 24 PLUS 5VBB H
 - 25 PLUS 5VBB H
 - 26 GND L
 - 27 PRM DCLO L
 - 28 PRM ACLO L
 - 29 PRM RESET L
 - 30 GND L

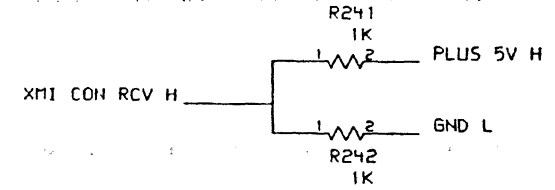
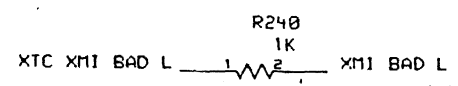
- J3**
- 1 GND L
 - 2 GND L
 - 3 XMI TIME 6 H
 - 4 GND L
 - 5 XMI PHASE 3 L
 - 6 GND L
 - 7 XMI TIME 7 H
 - 8 XMI TIME 1 H
 - 9 GND L
 - 10 XMI PHASE 2 L
 - 11 GND L
 - 12 XMI TIME 7 L
 - 13 GND L
 - 14 XMI PHASE 4 L
 - 15 XMI TIME 1 L
 - 16 GND L
 - 17 XMI TIME 5 H
 - 18 GND L
 - 19 XMI TIME 4 H
 - 20 XMI TIME 3 H
 - 21 XMI TIME 2 H
 - 22 GND L
 - 23 XMI TIME 6 L
 - 24 XMI TIME 5 L
 - 25 GND L
 - 26 XMI TIME 4 L
 - 27 XMI TIME 3 L
 - 28 XMI TIME 2 L
 - 29 GND L
 - 30 XMI PHASE 1 L

- J4**
- 1 XMI HOLD L
 - 2 XMI SUP L
 - 3 GND L
 - 4 XMI ERR DEF H
 - 5 GND L
 - 6 PLUS 5VBB H
 - 7 PLUS 5VBB H
 - 8 PLUS 5VBB H
 - 9 PLUS 5VBB H
 - 10 PLUS 5VBB H
 - 11 PLUS 5VBB H
 - 12 PLUS 5VBB H
 - 13 PLUS 5VBB H
 - 14 PLUS 5VBB H
 - 15 PLUS 5VBB H
 - 16 GND L
 - 17 GND L
 - 18 CLKA EN L
 - 19 GND L
 - 20 XMI DEFA H
 - 21 XMI DEFH H
 - 22 GND L
 - 23 PLUS 5VBB H
 - 24 PLUS 5VBB H
 - 25 PLUS 5VBB H
 - 26 PLUS 5VBB H
 - 27 PLUS 5VBB H
 - 28 PLUS 5VBB H
 - 29 PLUS 5VBB H
 - 30 PLUS 5VBB H

- J5**
- 1 XMI GRANT 8 L
 - 2 XMI GRANT 9 L
 - 3 GND L
 - 4 XMI GRANT 10 L
 - 5 XMI GRANT 11 L
 - 6 GND L
 - 7 XMI GRANT 12 L
 - 8 XMI GRANT 13 L
 - 9 XMI GRANT 14 L
 - 10 GND L
 - 11 XMI TIME 15 H
 - 12 GND L
 - 13 XMI PHASE 8 L
 - 14 GND L
 - 15 XMI TIME 15 L
 - 16 XMI GRANT 7 L
 - 17 GND L
 - 18 XMI GRANT 6 L
 - 19 XMI GRANT 5 L
 - 20 GND L
 - 21 XMI GRANT 4 L
 - 22 XMI GRANT 3 L
 - 23 XMI GRANT 2 L
 - 24 GND L
 - 25 XMI GRANT 1 L
 - 26 XMI AC LO L
 - 27 XMI DC LO L
 - 28 XMI RESET L
 - 29 GND L
 - 30 GND L

- J6**
- 1 XMI CMD REQ 8 L
 - 2 XMI CMD REQ 9 L
 - 3 XMI CMD REQ 10 L
 - 4 XMI CMD REQ 11 L
 - 5 XMI CMD REQ 12 L
 - 6 XMI CMD REQ 13 L
 - 7 XMI CMD REQ 14 L
 - 8 GND L
 - 9 PLUS 5VBB H
 - 10 PLUS 5VBB H
 - 11 PLUS 5VBB H
 - 12 PLUS 5VBB H
 - 13 PLUS 5VBB H
 - 14 PLUS 5VBB H
 - 15 PLUS 5VBB H
 - 16 XMI RES REQ 8 L
 - 17 XMI RES REQ 9 L
 - 18 XMI RES REQ 10 L
 - 19 XMI RES REQ 11 L
 - 20 XMI RES REQ 12 L
 - 21 XMI RES REQ 13 L
 - 22 XMI RES REQ 14 L
 - 23 GND L
 - 24 GND L
 - 25 GND L
 - 26 PLUS 5VBB H
 - 27 PLUS 5VBB H
 - 28 PLUS 5VBB H
 - 29 PLUS 5VBB H
 - 30 PLUS 5VBB H

- J7**
- 1 GND L
 - 2 XMI TIME 10 L
 - 3 GND L
 - 4 XMI TIME 11 L
 - 5 XMI TIME 12 L
 - 6 XMI TIME 13 L
 - 7 GND L
 - 8 XMI TIME 9 H
 - 9 XMI TIME 8 H
 - 10 XMI TIME 15 H
 - 11 XMI TIME 10 H
 - 12 XMI TIME 11 H
 - 13 XMI TIME 12 H
 - 14 GND L
 - 15 XMI TIME 14 H
 - 16 XMI TIME 9 L
 - 17 GND L
 - 18 XMI TIME 8 L
 - 19 XMI TIME 15 L
 - 20 GND L
 - 21 XMI PHASE 5 L
 - 22 GND L
 - 23 XMI TIME 14 L
 - 24 GND L
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 - 26 GND L
 - 27 XMI PHASE 7 L
 - 28 GND L
 - 29 XMI PHASE 8 L
 - 30 XMI TIME 13 H

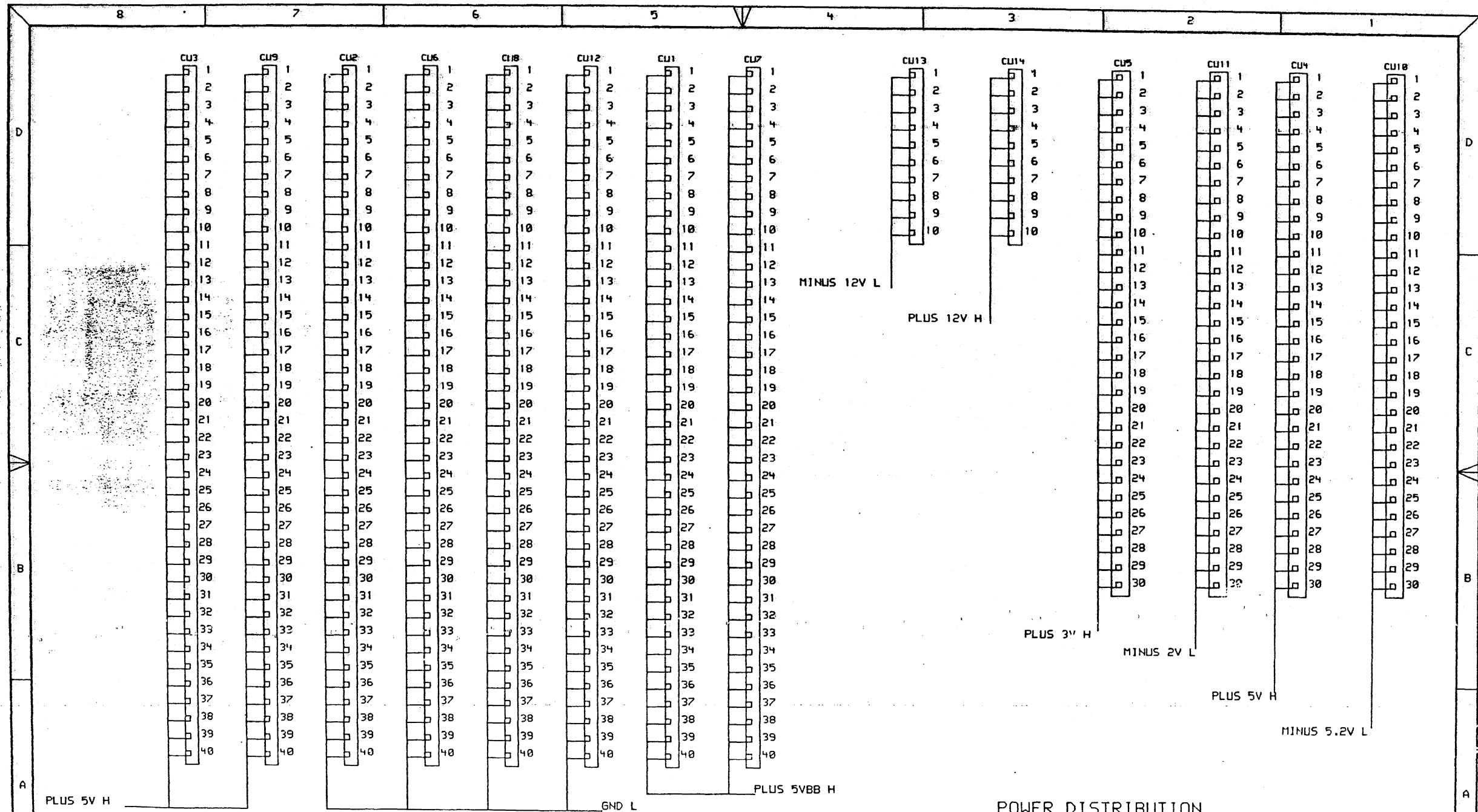


NOTE: CLKA EN L is tied to GND

CLOCK ARBITER CONNECTORS

MODULE REV. C1

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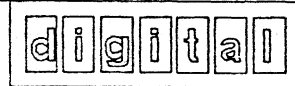
POWER DISTRIBUTION

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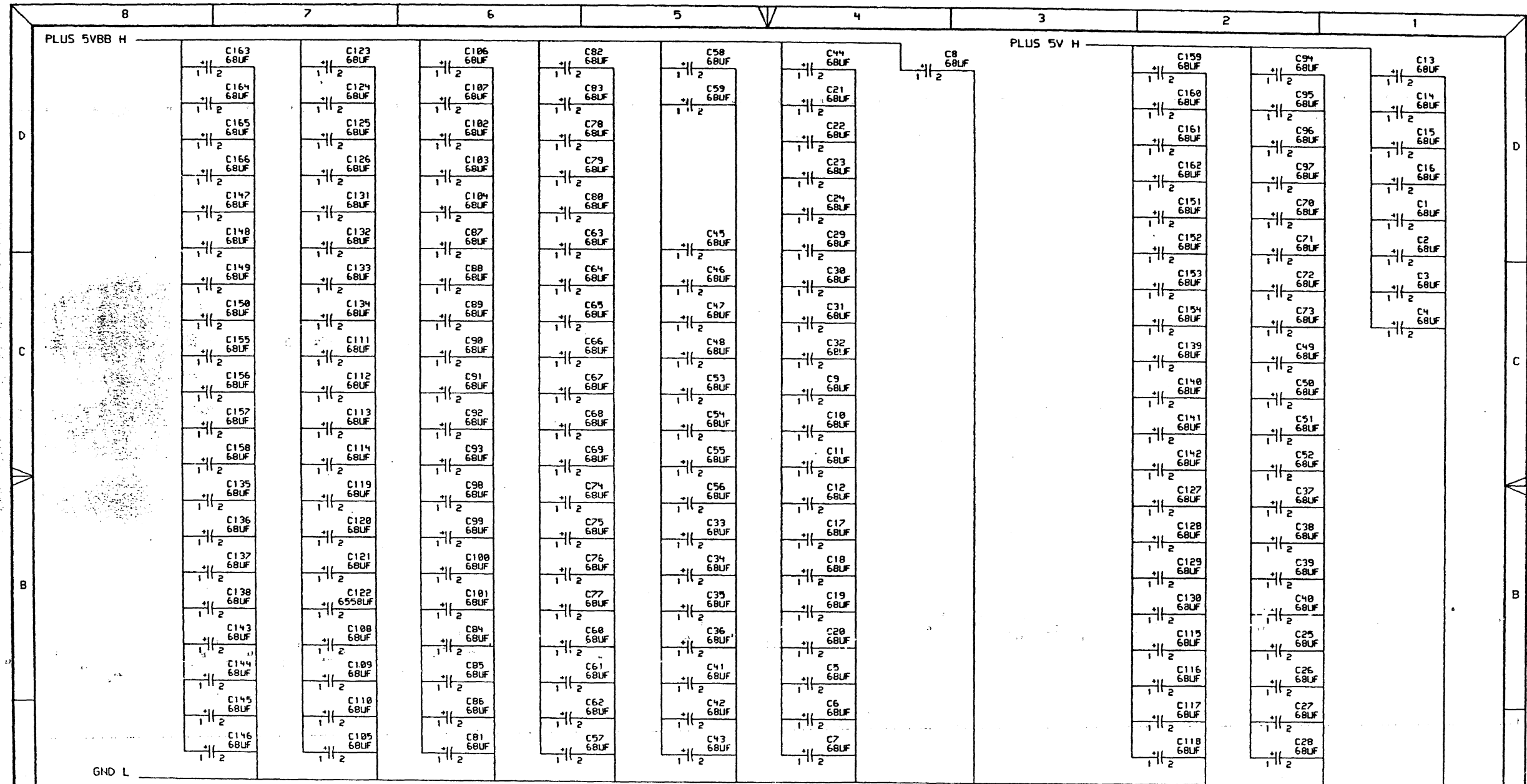
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REV	ECO NUMBER	DATE

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DRN: J.P.COYLE	DATE 12-FEB-87	ENG: J.STAPLES	DATE 12-FEB-87
CHK'D: D. BLANCHARD	DATE 24-NOV-87	SHEET 1 OF 1	
NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0		SIZE K	CODE CS

TITLE: XMI BACKPLANE 14 SLOT			
NUMBER	REV		
5418176-1-0012	B		



CAPACITORS

MODULE REV. C1

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REVISION HISTORY		
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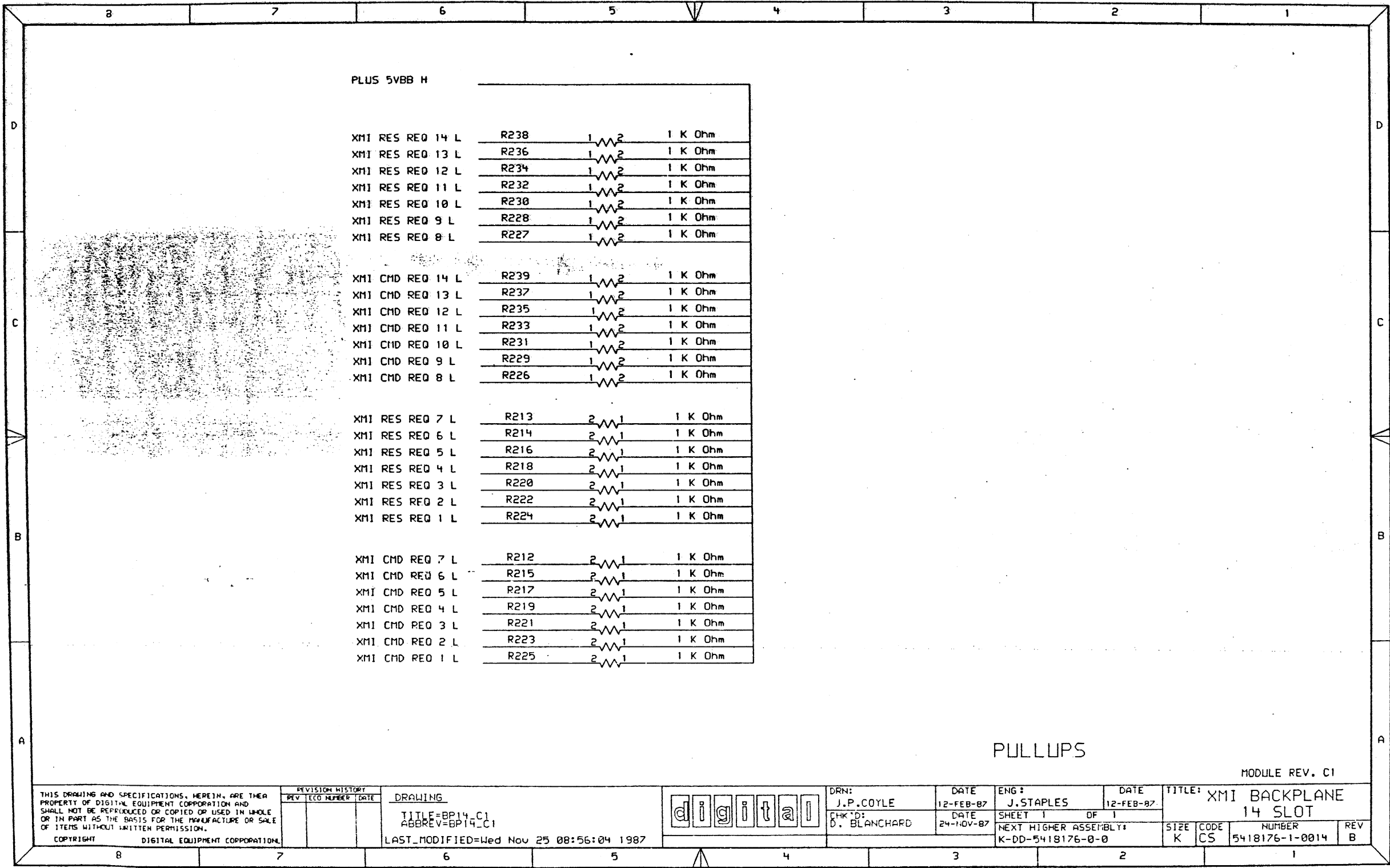


DRN:
J.P.COYLE
CHK'D:
D. BLANCHARD

DATE
12-FEB-87
DATE
24-NOV-87

ENG:
J.STAPLES
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:
K-DD-5418176-0-0

TITLE:
XMI BACKPLANE
14 SLOT
SIZE CODE NUMBER REV
K CS 5418176-1-0013 B

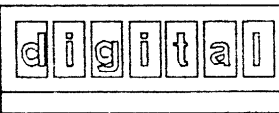


MODULE REV. C1

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REVISION HISTORY		
REV	TECO NUMBER	DATE

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DRN: J.P.COYLE
 CHK'D: D. BLANCHARD

DATE	ENG:	DATE
12-FEB-87	J.STAPLES	12-FEB-87
DATE	SHEET	OF
24-NOV-87	1	1

TITLE: XMI BACKPLANE		
14 SLOT		
SIZE	CODE	NUMBER
K	CS	5418176-1-0014

REV
B

OPTION NAME: CPU BACKPLANE
 USED IN: CALYPSO

REVISION HISTORY OF 14 SLOT XMI BACKPLANE

RM-ECO-1

FUNCTIONAL HISTORY OF CHANGES WITH EACH PASS

PCA-001
Etch rev A1

INITIAL PASS (functional)

PCA-002
Etch rev B1

- Surface mount pads size changed from .030x.076 to .050x.082, so as to conform with ELEN-441.
- Circuit level fiducials added to side two (L14) (part number 1A-BFFID-00).
- R212-R239 moved to increase clearance between mounting holes and resistors.
- 1k ohm resistor (R240) added in series to signal XMI BAD L and the console connector (J1).
- Two 1k ohm resistors (R241, R242) added to signal XMI CON RECV N, pulldown/pulldown combination.
- Solder mask artwork cleaned up.
- Hi-Pot map added to MD set as sheet 17
- Dash 1 (XX-XXXX-XX-1-0) variation of the of CS,UA,MD,KPL created so as to be able to support both A1 etch and B1 etch.
- Line Width of layer (L1) changed from .010" to .015".

PCA-002A
Etch rev B1

- Added following drawings to package, for MDA support:
K-IF-5018175-0-0, K-IF-5418176-0-0, K-ST-5018175-0-0, K-ST-5418176-0-0

PCA-003
Etch rev B1
Module rev B1

- Places 50 and 54 level under ECO and releases product for volume manufacture
See PCA-003 for documentation changes.

ECO-001
Etch Rev.B1
Module Rev.C1

- Fixed XMI HOLD L power sequence problem.
- Sheet 1 of UA, fixed spelling of Svec.
- Sheets 3,4 of UA part numbers on reference drawing of power cubes needed to be fixed in database.
- Added drawing showing pinning of I/O connectors, as viewed from side two, to sheets 3 and 4 of UA.
- Swapped components in database, to correct physical placement problem, causing discrepancy between XMI spec. and UA drawing. Nomenclature artwork will be fixed in C1 etch rev.

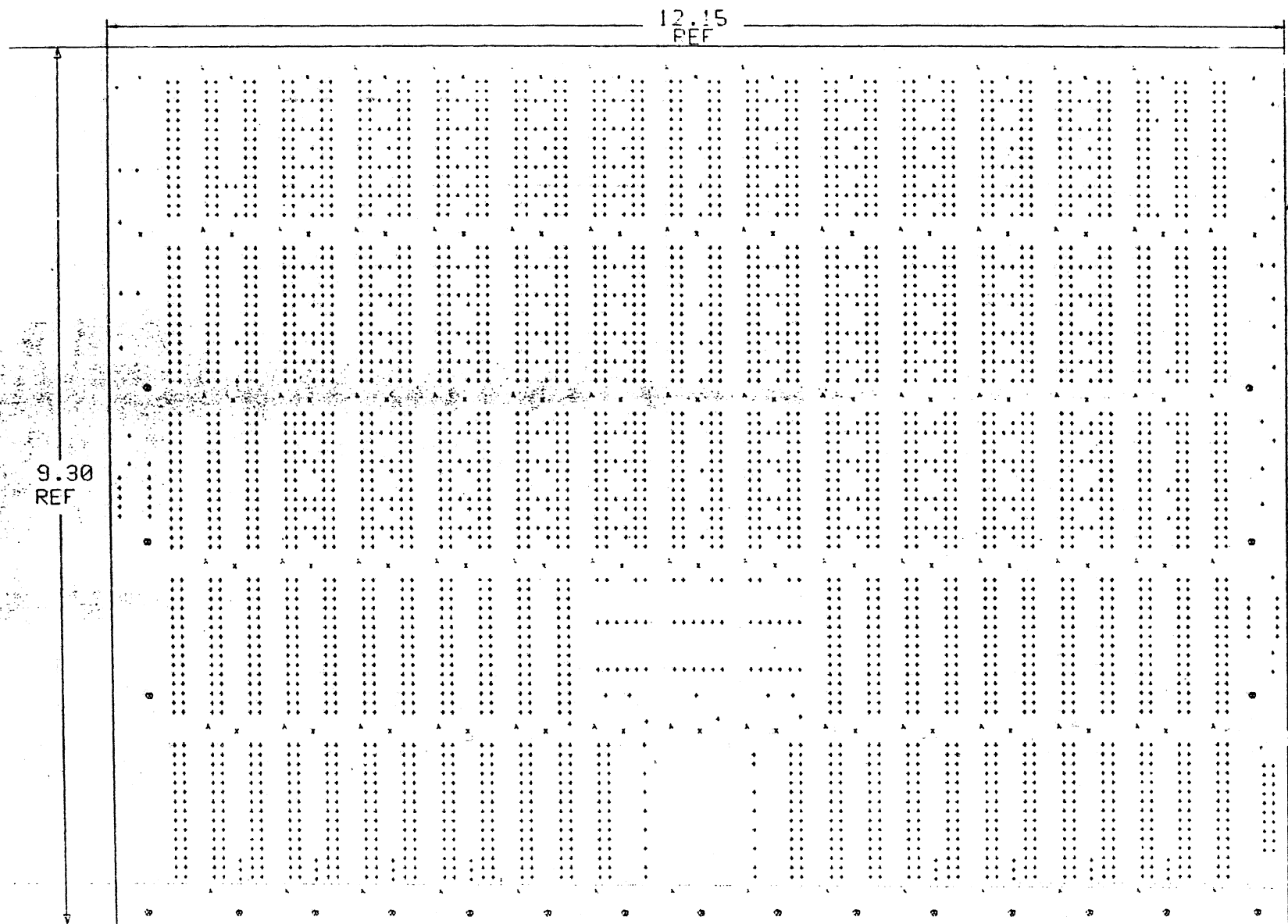
ECO-002
Etch Rev.C1
Module Rev.C2

- NEW ETCR PASS
- XMI HOLD L Power sequence problem fixed in etch, green wires removed.
- Changed inner layer line/etch width of XMI TOY SBU PWR from 0.010" to 0.020".
- Fixed nomenclature artwork (J2,J7,CU14,CU14) plus general nomenclature clean-up.
- Removed C6 and C164 from PLOSSVBB network and added them to XMI TOY SBU PWR network.
- Dash 2 (XX-XXXX-XX-2-X) variation of the of CS,UA,MD,IF,ST created.

PURCHASE PART NUMBER 50-18175-01
54-18176-01

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	CHK'D: J. STAPLES	DATE: 5/88	TITLE			
	RESP. ENG.: J. OBBARD	DATE: 5/88	XMI 14 SLOT BP FUNCTIONAL REVISION MATRIX			
	MTG. ENG.: JAN SEVC	DATE: 5/88	SHEET 1 OF 1			
	FIELD SERVICE: B. PETERS	DATE: 5/88	DOCUMENT NUMBER			
			SIZE	COORD	NUMBER	REV
			K	RM	5418176-0-0	C

SIDE 1
VIEWED FROM SIDE 1



NO.	CREWED BY	ENGINEER	CHANGE NO.	DATE	REV.

NOTES
 1. ALL CAPS (C1 THRU C166) ARE ENGRAVED & MUST BE INSTALLED WITH PIN 3 POINTS DOWN TOWARDS BOTTOM EDGE OF THE BOARD.
 2. THIS BOARD MUST MEET SAFETY REQ'T FOR HAZARD.
 3. ZERO EDGE CODE AS REQ'D.

DATE	REVISION

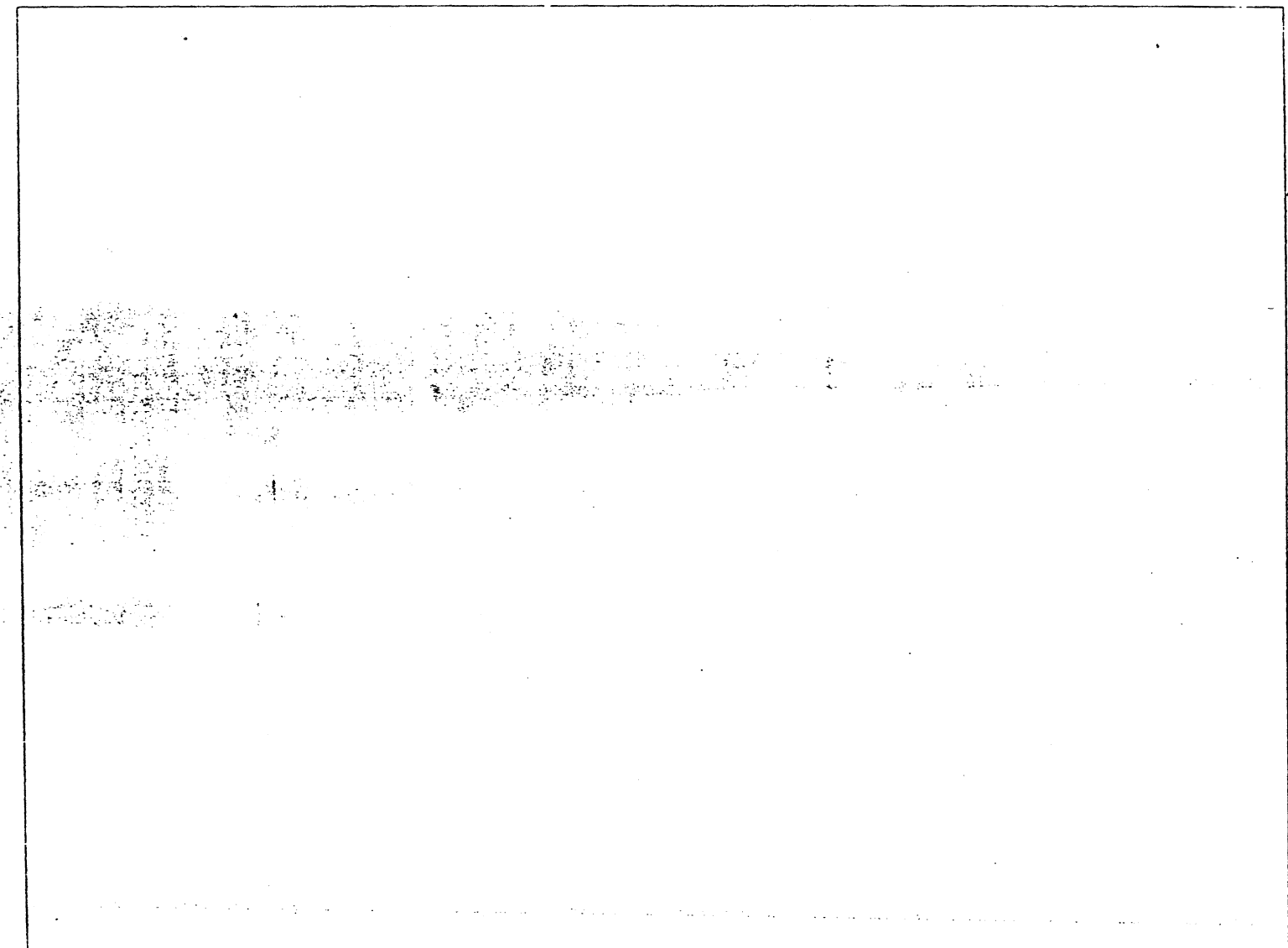
SIGNATURES	DATE

digital
 TITLE: SLOT
 CPU BACKPLANE
 SHEET 1 OF 1
 NUMBER 6418176-2-0
 REV 0

PART NO 6418176-2-0

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
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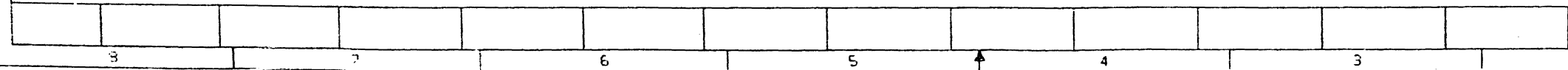
SIDE 1
VIEWED FROM SIDE 1



ITEM 1

J
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J
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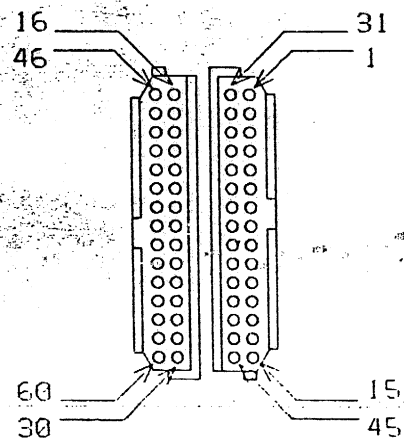
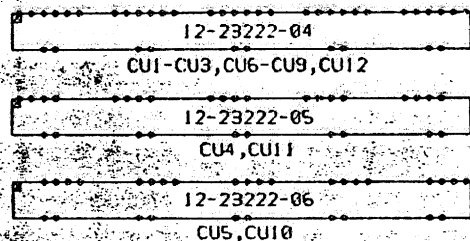


TITLE		DOCUMENT NUMBER	
14 SLOT CPU BACKPLATE		E 1418176-2-0	
SCALE	1/8" = 1"	SHEET	2 OF 4
DWG # 14609			

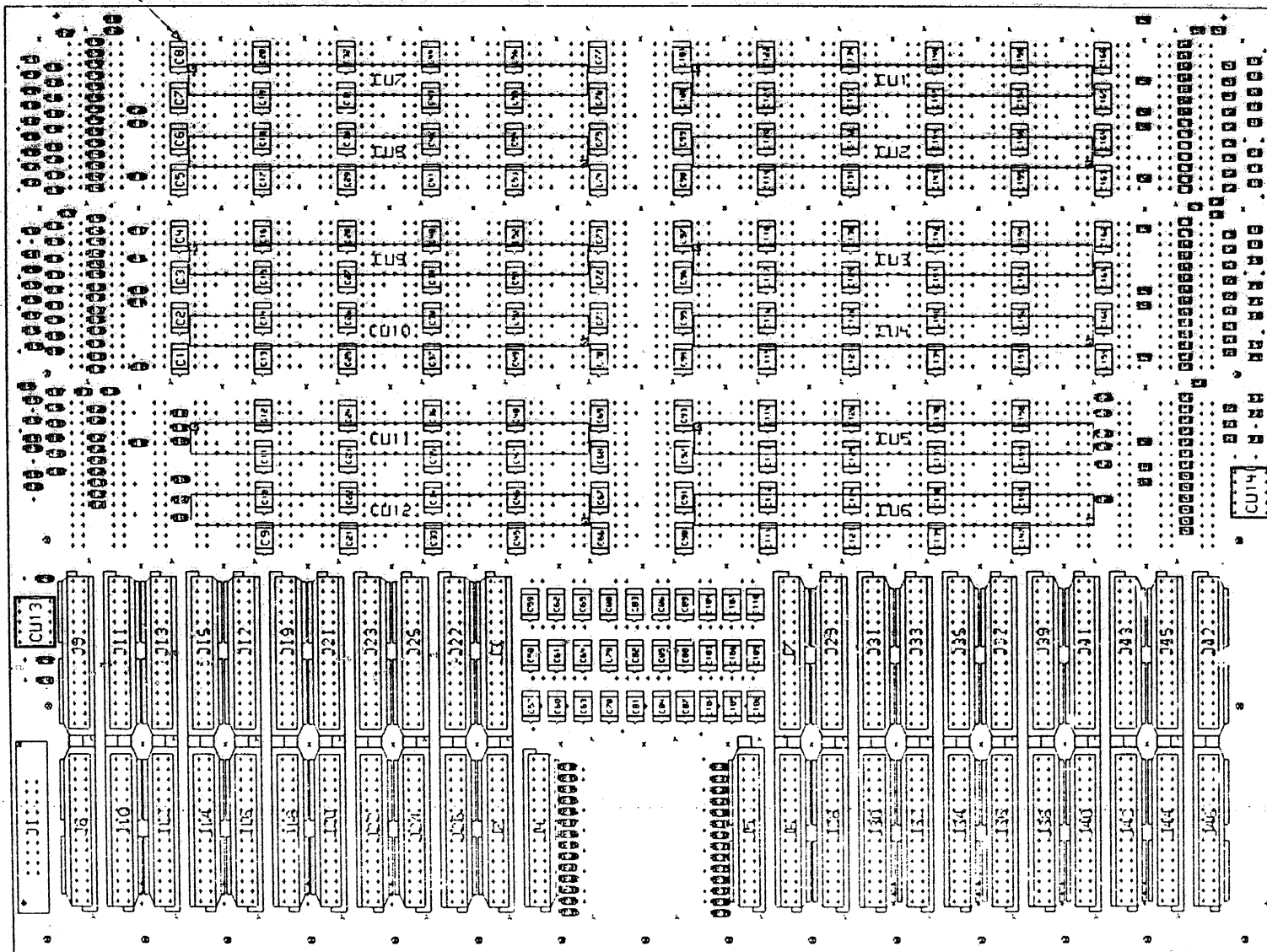
SIDE 2
VIEWED FROM SIDE 2

- A. POWER STRIPS 12-23222-04, 12-23222-05, AND 12-23222-06 MUST BE INSTALLED PER THE ORIENTATION SHOWN ON E-04-5418176-1-0 SHT. 3 OR 4. THE DEPTH OF INSERTION INTO THE BACKPLANE, IS GOVERNED BY THE ASSEMBLY DIMENSION OF 0.295 ± 0.010 (INCHES). THIS DIMENSION IS THE DISTANCE BETWEEN THE UPPER MOST SURFACE OF THE POWER STRIP(S) AND THE SURFACE OF SIDE TWO.
- B. THE POSITIONAL LOCATION OF ALL SMD (SURFACE MOUNTED DEVICES) MUST BE CAREFULLY CONTROLLED TO AVOID CONTACT WITH ADJACENT COMPONENTS. IN ADDITION TO MEETING THE ASSEMBLY REQUIREMENTS OF DEC STD 116-9, SECTION 8.3, THE OUTER PROFILE OF EACH COMPONENT MUST RESTORE WITHIN THE BOUNDARY FORMED BY THE IDENTIFICATION ARTWORK (D-55-5018175-1-01).

SEE NOTE 1
(SHT 11)



TYPICAL NUMBERING
OF I/O
CONNECTORS D&E



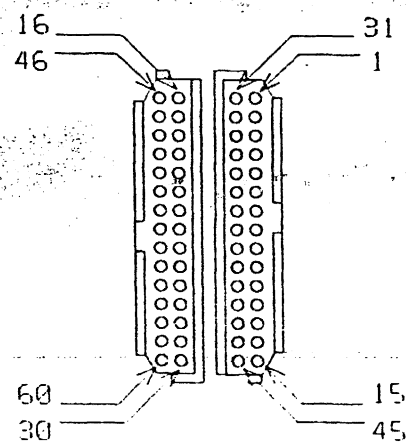
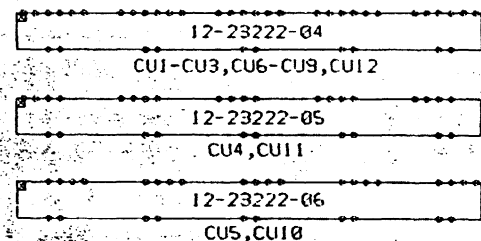
ITEM 1

SIZE	REV	DATE	BY
E-04	5418176-2-0		
SCALE	2:1		
TITLE		EQUIPMENT NUMBER	
14 SLOT CPU BACKPLANE		E-04-5418176-2-0	
NO. 174209			

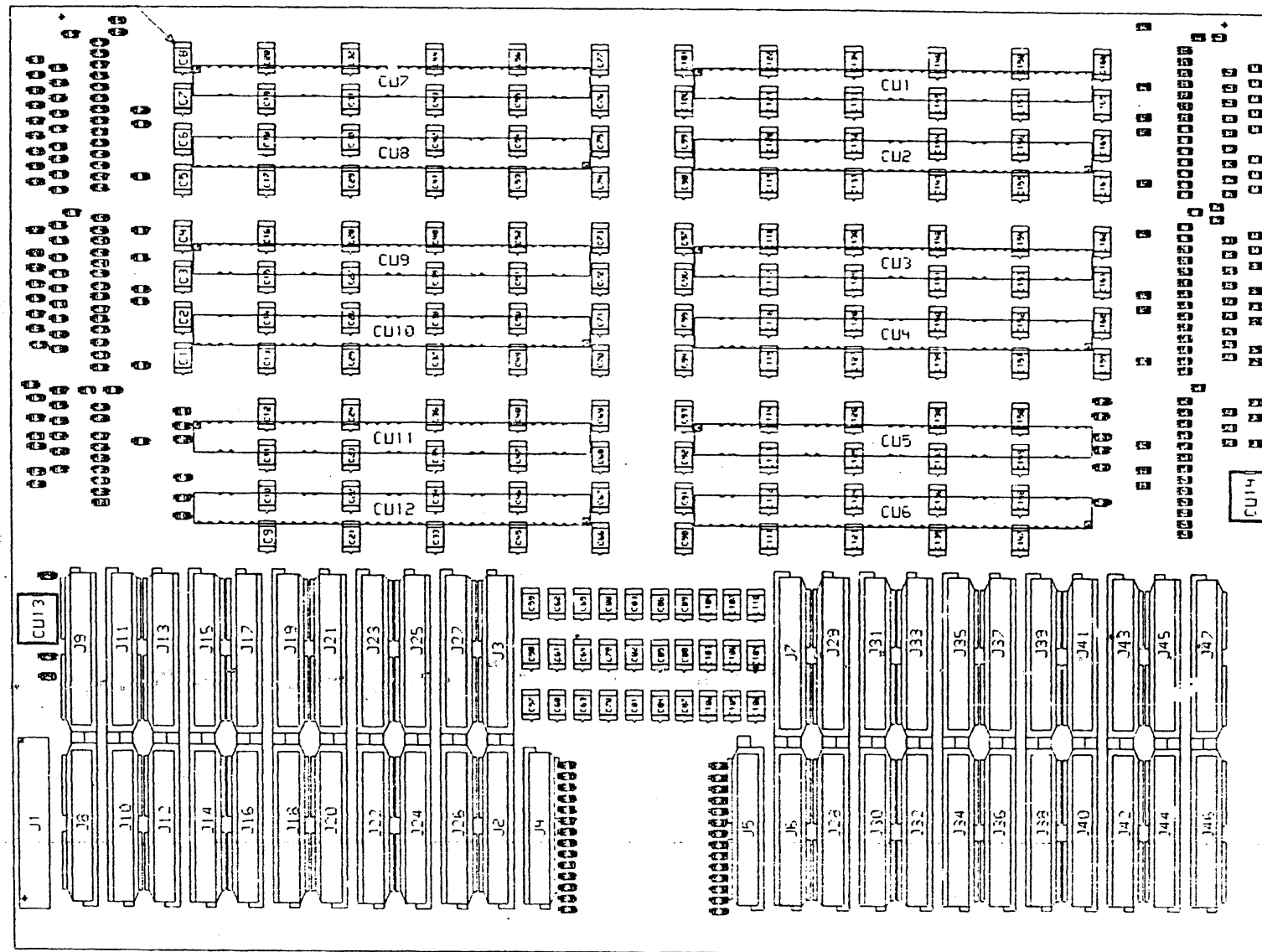
SIDE 2
VIEWED FROM SIDE 2

- A. POWER STRIPS 12-23222-04, 12-23222-05, AND 12-23222-06 MUST BE INSTALLED PER THE ORIENTATION SHOWN ON E-U1-5418176-1-0 SHT. 3 OR 4. THE DEPTH OF INSERTION INTO THE BACKPLANE, IS GOVERNED BY THE ASSEMBLY DIMENSION OF 0.295 +/- .010" (INCHES). THIS DIMENSION IS THE DISTANCE BETWEEN THE UPPER MOST SURFACE OF THE POWER STRIP(S) AND THE SURFACE OF SIDE TWO.
- B. THE POSITIONAL LOCATION OF ALL SMD (SURFACE MOUNTED DEVICES) MUST BE CAREFULLY CONTROLLED TO AVOID CONTACT WITH ADJACENT COMPONENTS. IN ADDITION TO MEETING THE ASSEMBLY REQUIREMENTS OF DEC STD 116-3, SECTION 8.3, THE OUTER PROFILE OF EACH COMPONENT MUST RESIDE WITHIN THE BOUNDARY FORMED BY THE NOMENCLATURE ARTWORK (0-SS-5018175-1-0).

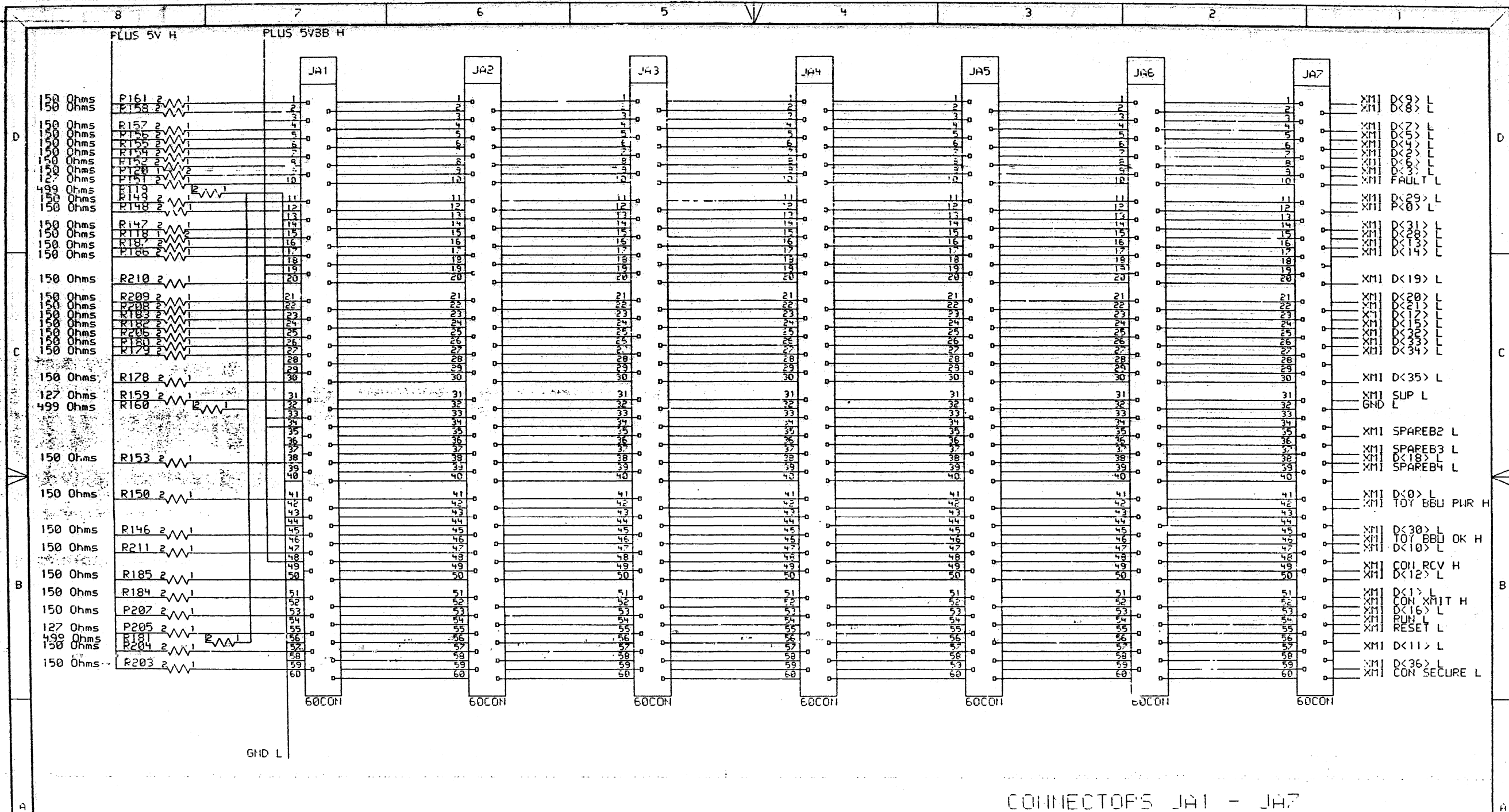
SEE NOTE 1
(SHT 11)



TYPICAL NUMBERING
OF I/O
CONNECTORS. D&E



ITEM 1



CONNECTORS JA1 - JA7

MODULE REV. C2

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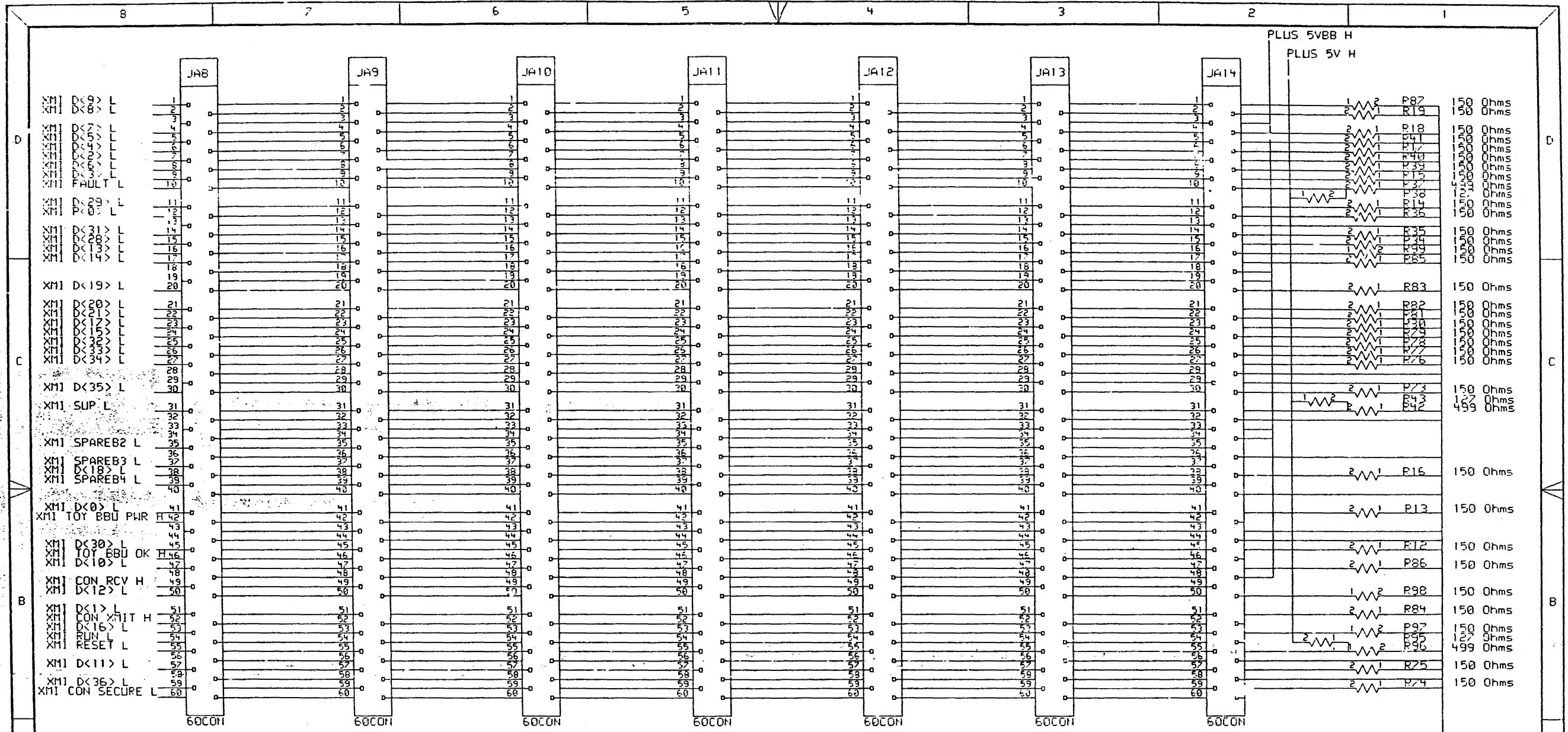
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DRN: J.P.COYLE	DATE 12-FEB-87	ENG: J.STAPLES	DATE 12-FEB-87
CHK'D: D. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1	TITLE: XMI BACKPLANE 14 SLOT
NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0		SIZE K	CODE CS

NUMBER 5418176-2-0001	REV A
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CONNECTORS JA8 - JA14

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CHK'D: C. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0	SIZE K
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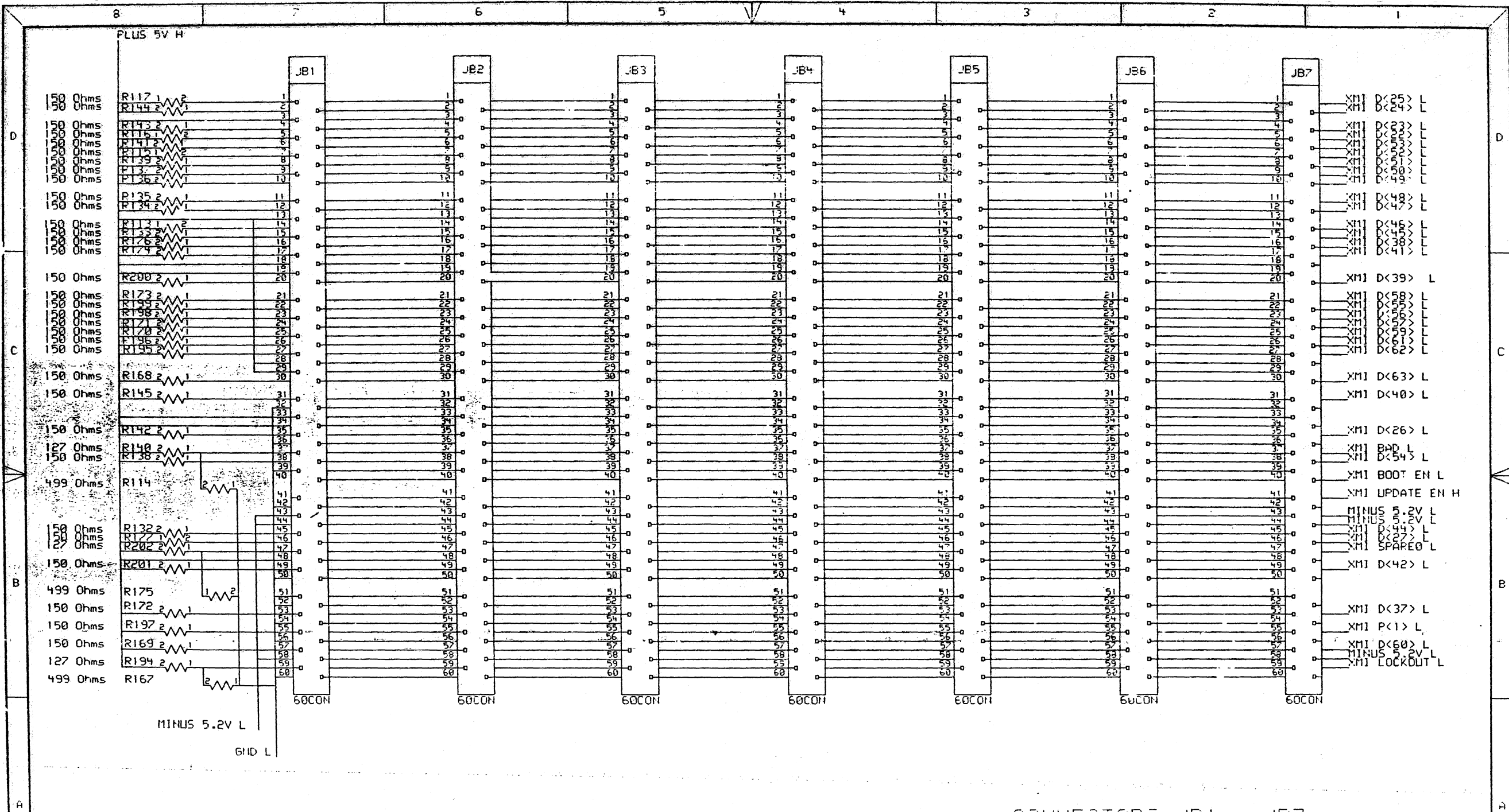
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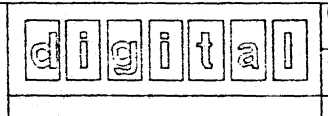
CONNECTORS JB1 - JB7

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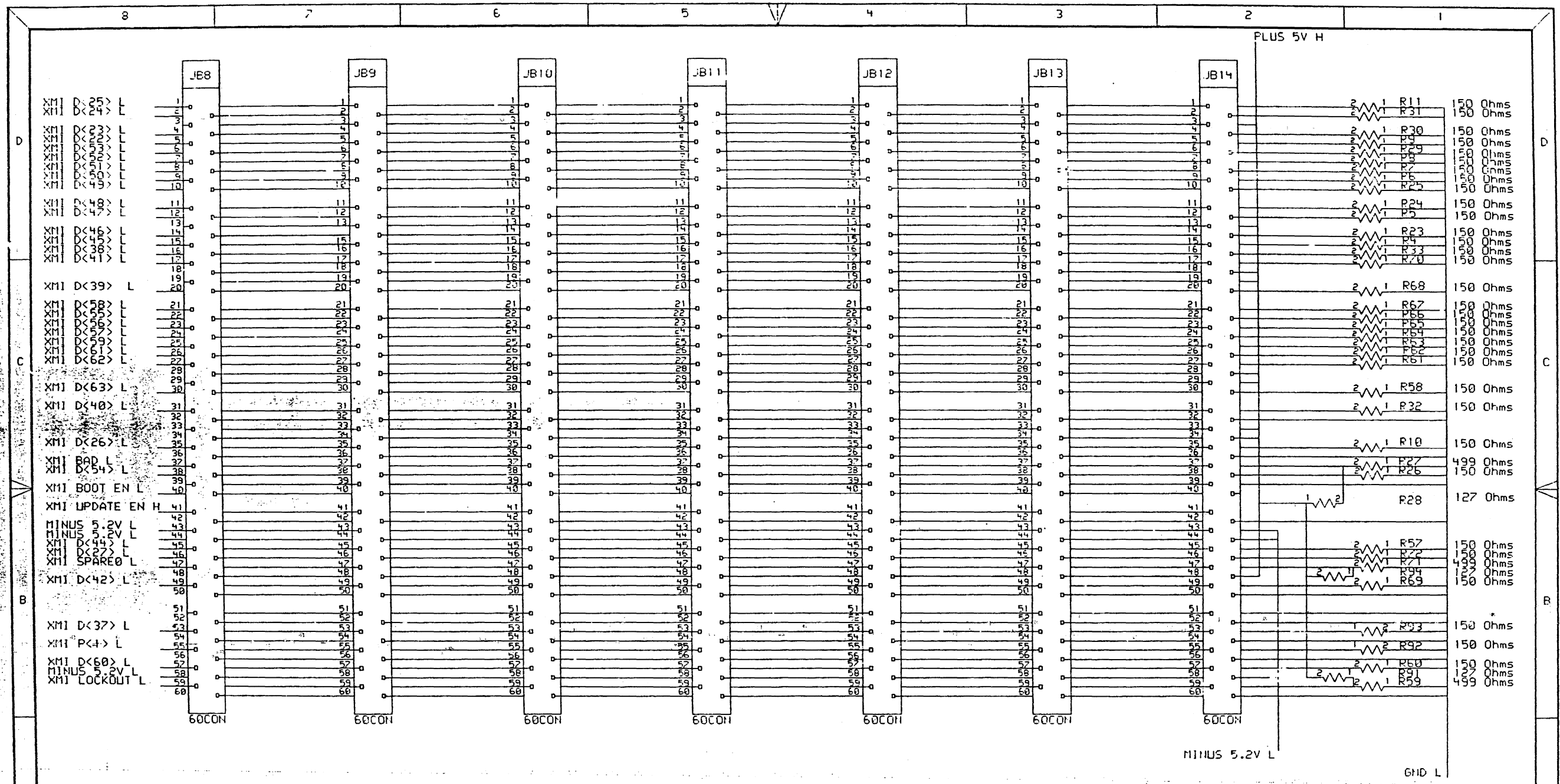


DRN:
 J.P. COYLE
 CHK'D:
 G. BLANCHARD

DATE
 12-FEB-87
 DATE
 29-FEB-88

ENG:
 J. STAPLES
 SHEET 1 OF 1
 NEXT HIGHER ASSEMBLY:
 K-DC-5418176-0-0

DATE
 12-FEB-87
 TITLE: XMI BACKPLANE
 14 SLOT
 STEE CODE NUMBER REV
 K CS 5418176-2-0003 A



CONNECTORS JB8 - JB14

MODULE REV. C2

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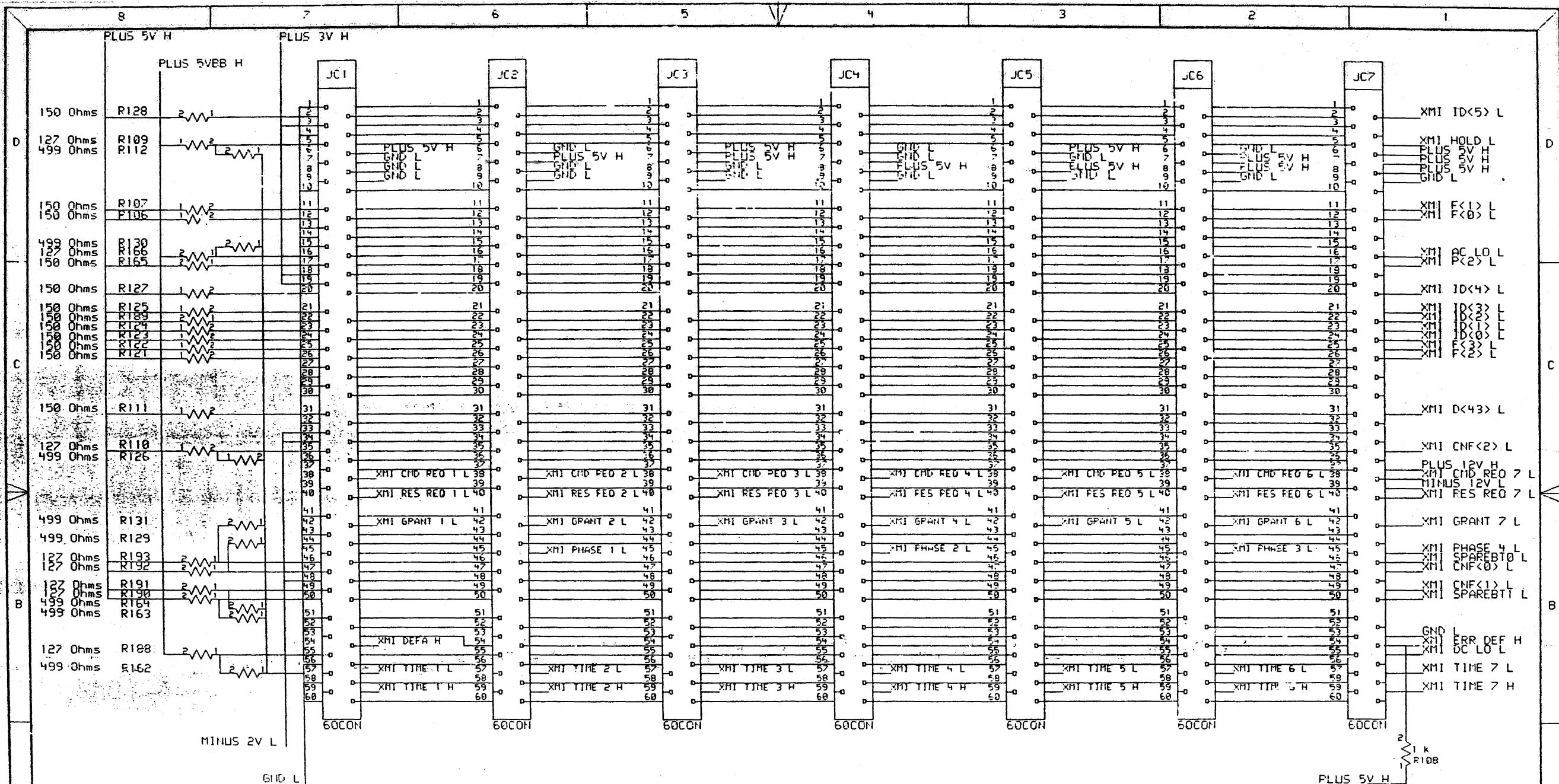
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DRN: J.P.COYLE	DATE 12-FEB-87	ENG: J.STAPLES	DATE 12-FEB-87
CHK'D: D. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1	TITLE: XMI BACKPLANE 14 SLOT
NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0		SIZE K	CODE CS

NUMBER 5418176-2-0004	REV A
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NOTE:
PINS 6, 7, 8, and 9 are the ID PINS used to define slot IDs.

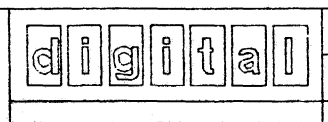
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MODULE REV. C2

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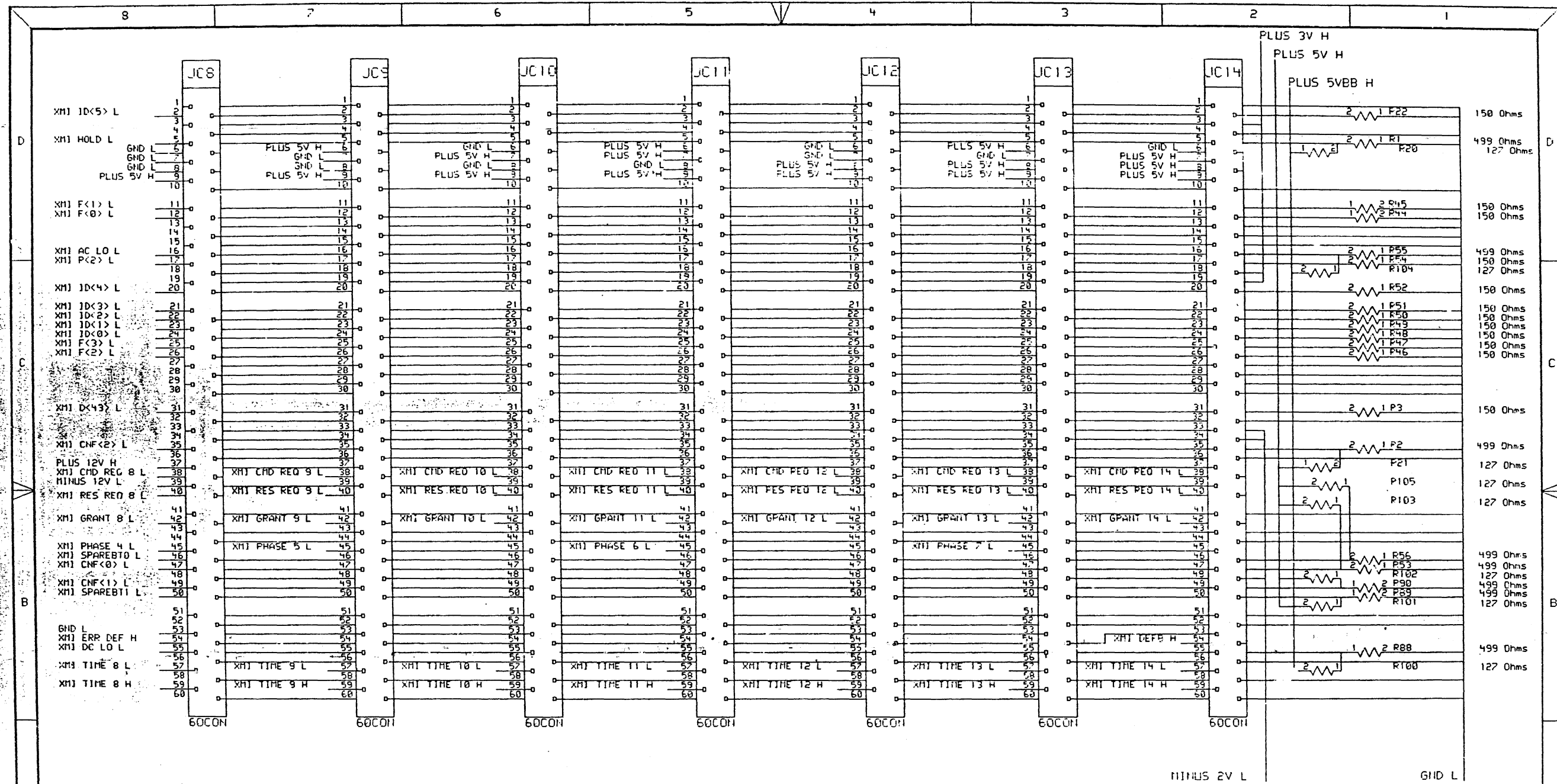


ENR: J.P. COYLE
CHK'D: D. BLANCHARD

DATE 12-FEB-87
DATE 29-FEB-88

ENG: J. STAPLES
SHEET 1 OF 1
NEXT HISHEP ASSEMBLY: K-DD-5418176-0-0

DATE 12-FEB-87
TITLE: XIII BACKPLANE 14 SLOT
SIZE CODE NUMBER REV
K CS 5418176-2-0005 A



NOTE:
 PINS 6, 7, 8, and 9 are the
 ID PINS used to define slot IDs.

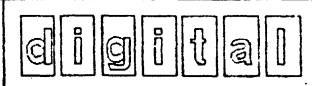
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MODULE REV. C2

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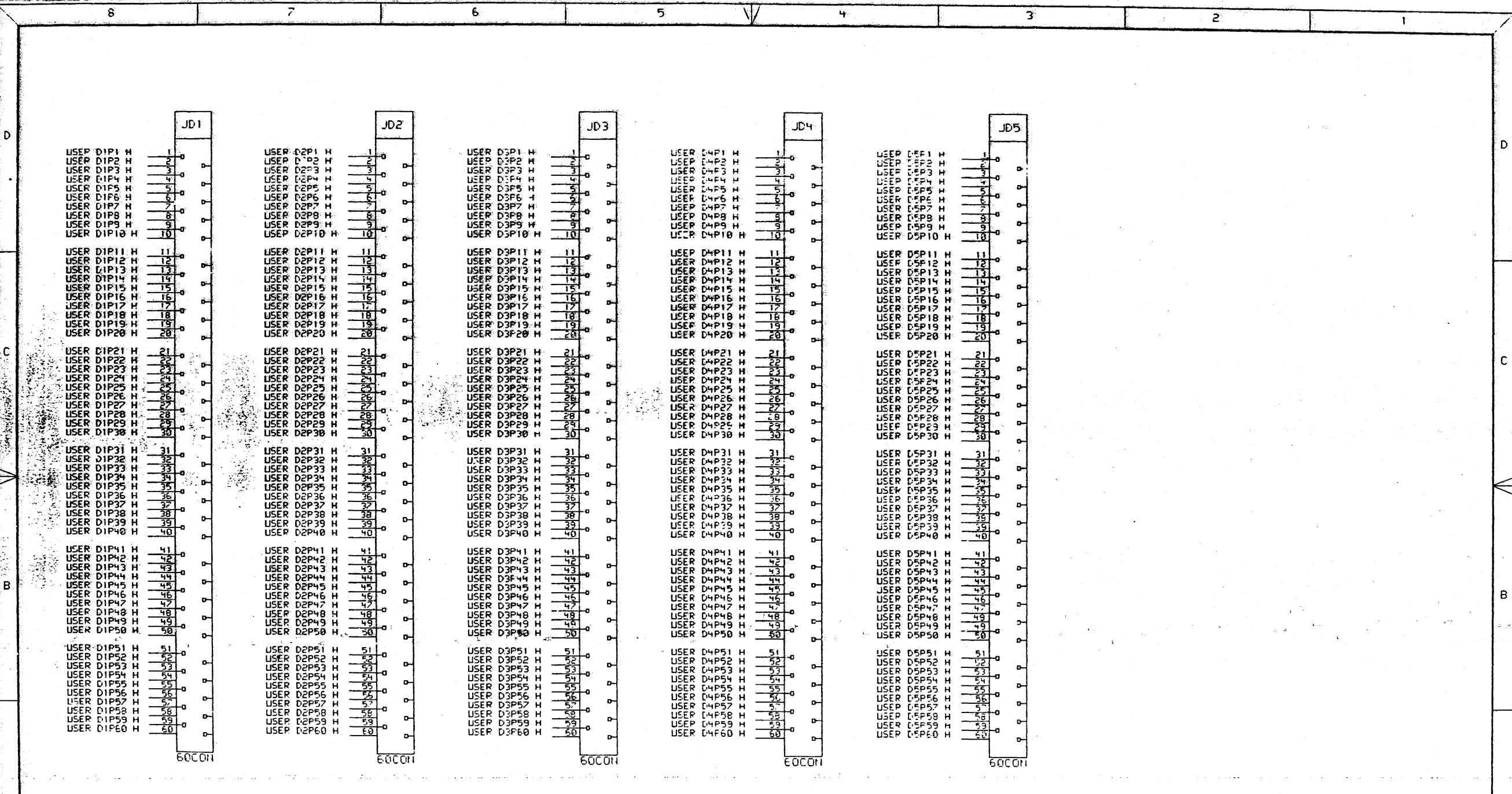
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DRN: J.P.COYLE	DATE 12-FEB-87	ENG: J.STAPLES	DATE 12-FEB-87
CHK'D: D. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1	TITLE: XMI BACKPLANE 14 SLOT
NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0		SIZE K	CODE CS

NUMBER 5418176-2-0006	REV A
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I/O CONNECTORS JD1 - JD5

MODULE REV. C2

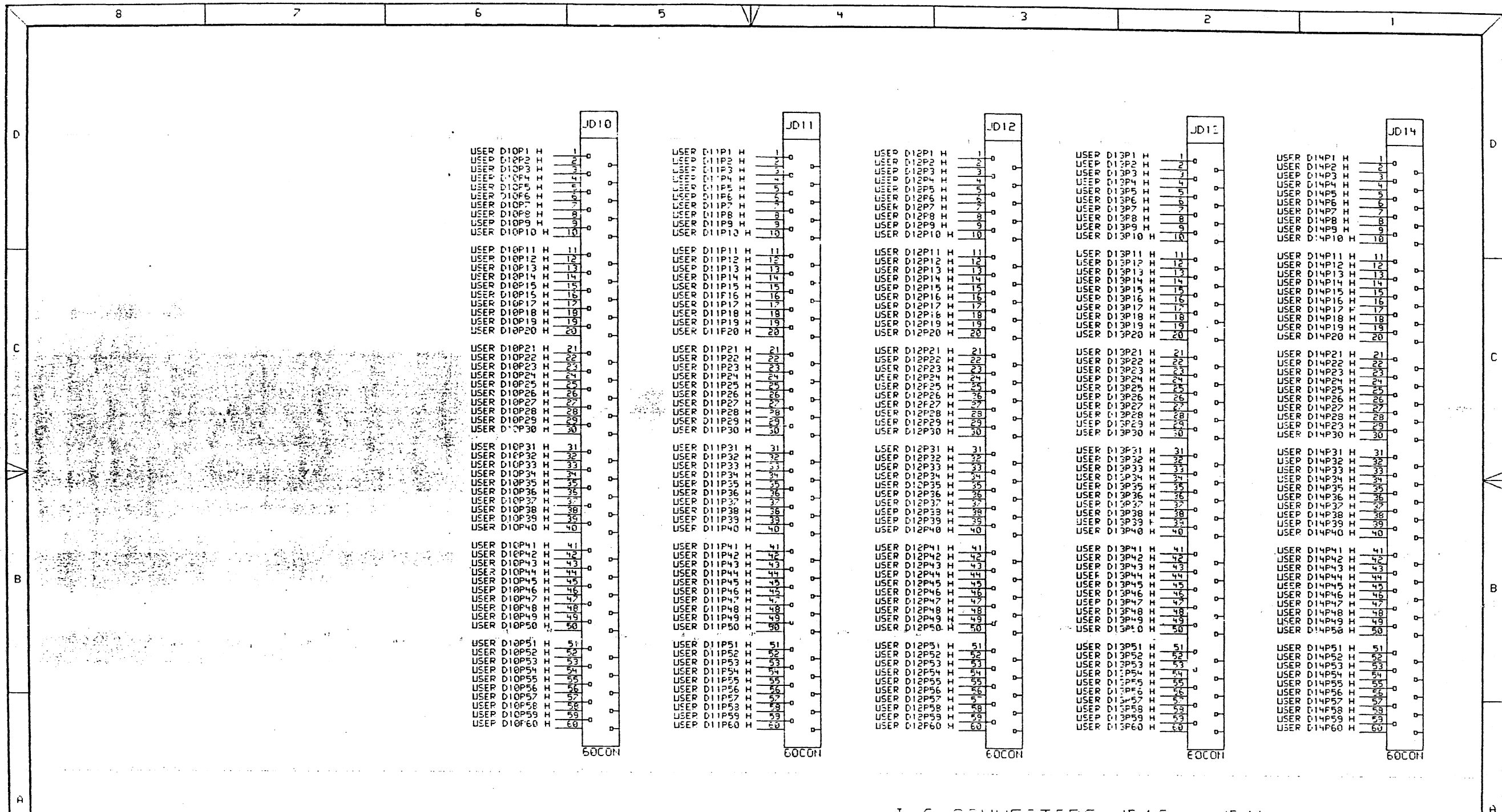
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DRN: J.P.COYLE	DATE: 12-FEB-87	ENG: J.STAPLES	DATE: 12-FEB-87	TITLE: XMI BACKPLANE 14 SLOT
CHK'D: D. BLANCHARD	DATE: 29-FEB-88	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY: K-DD-5418176-Q-0	SIZE: K
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I/O CONNECTORS JD10 - JD14

MODULE REV. C2

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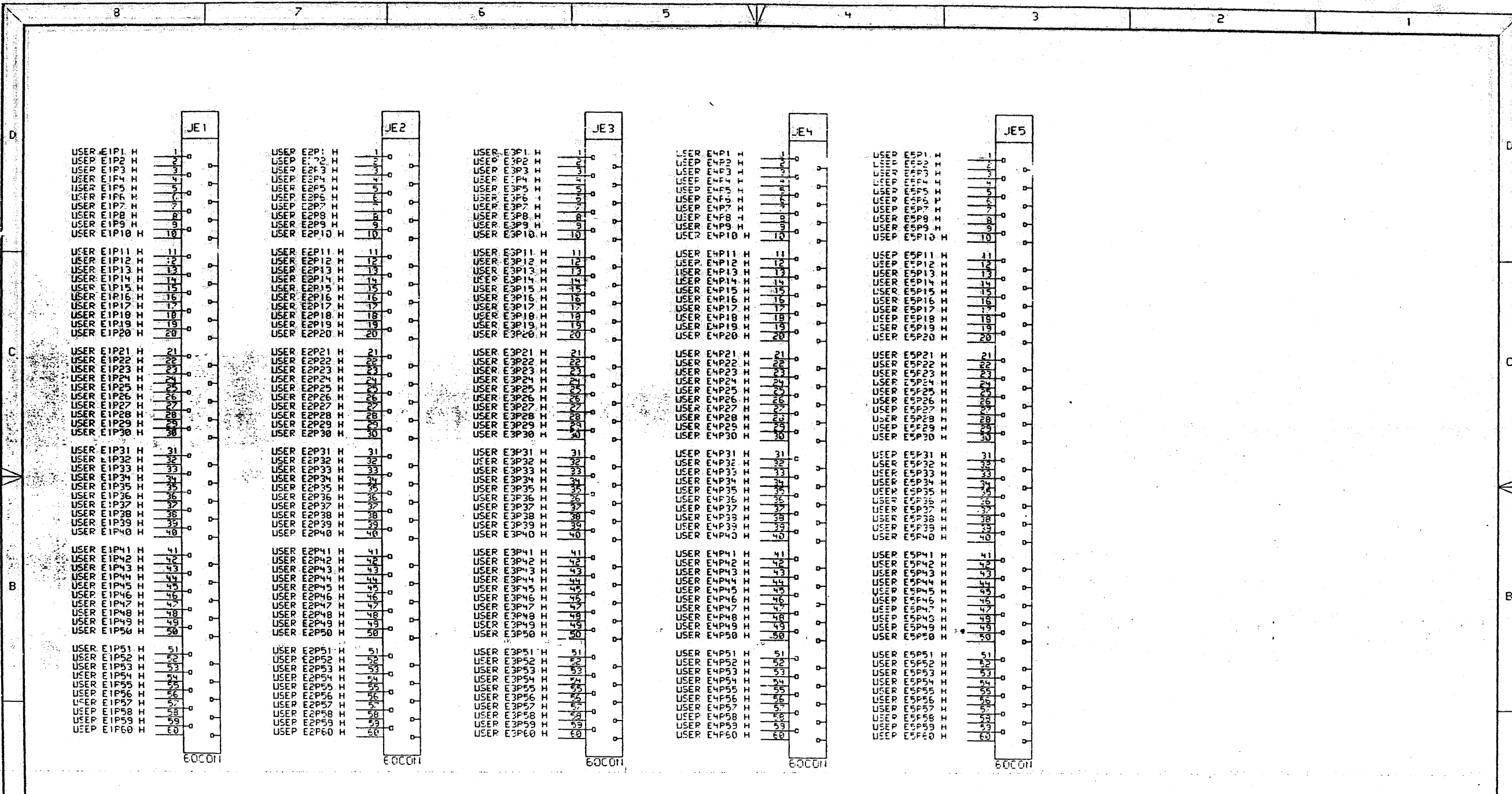
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CHK'D: D. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1	TITLE: XMI BACKPLANE 14 SLOT
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NUMBER 5418176-2-0008	REV A
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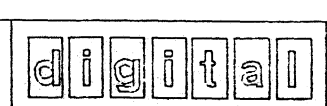
I/O CONNECTORS JE1 - JE5

MODULE REV. C2

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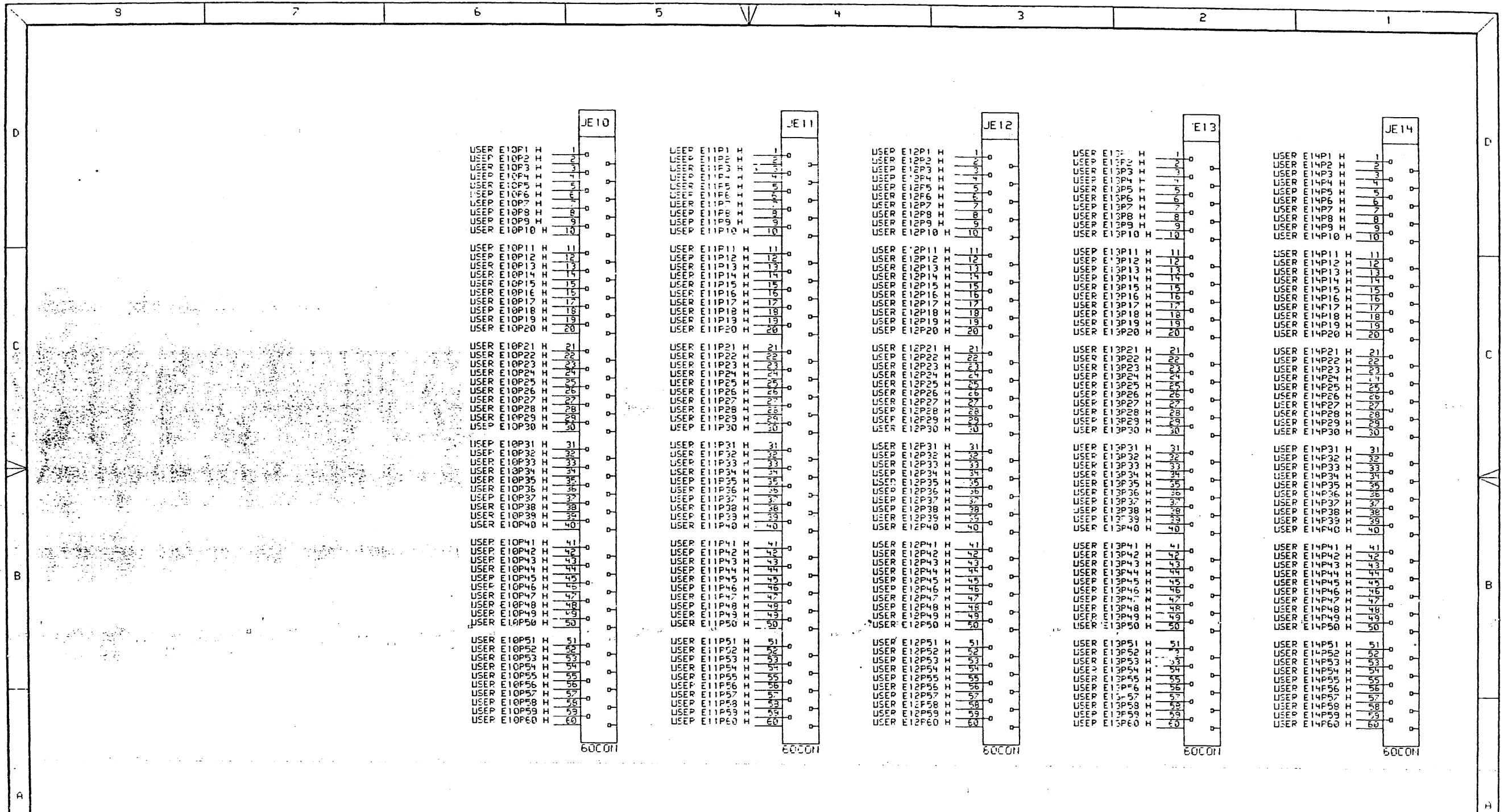
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DRN: J.P.COYLE	DATE 12-FEB-87	ENG: J.STAPLES	DATE 12-FEB-87
CHK'D: D. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1	
NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0			

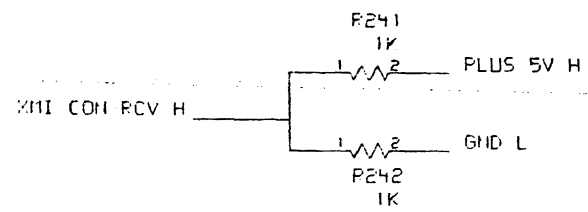
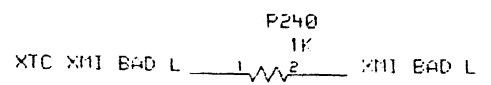
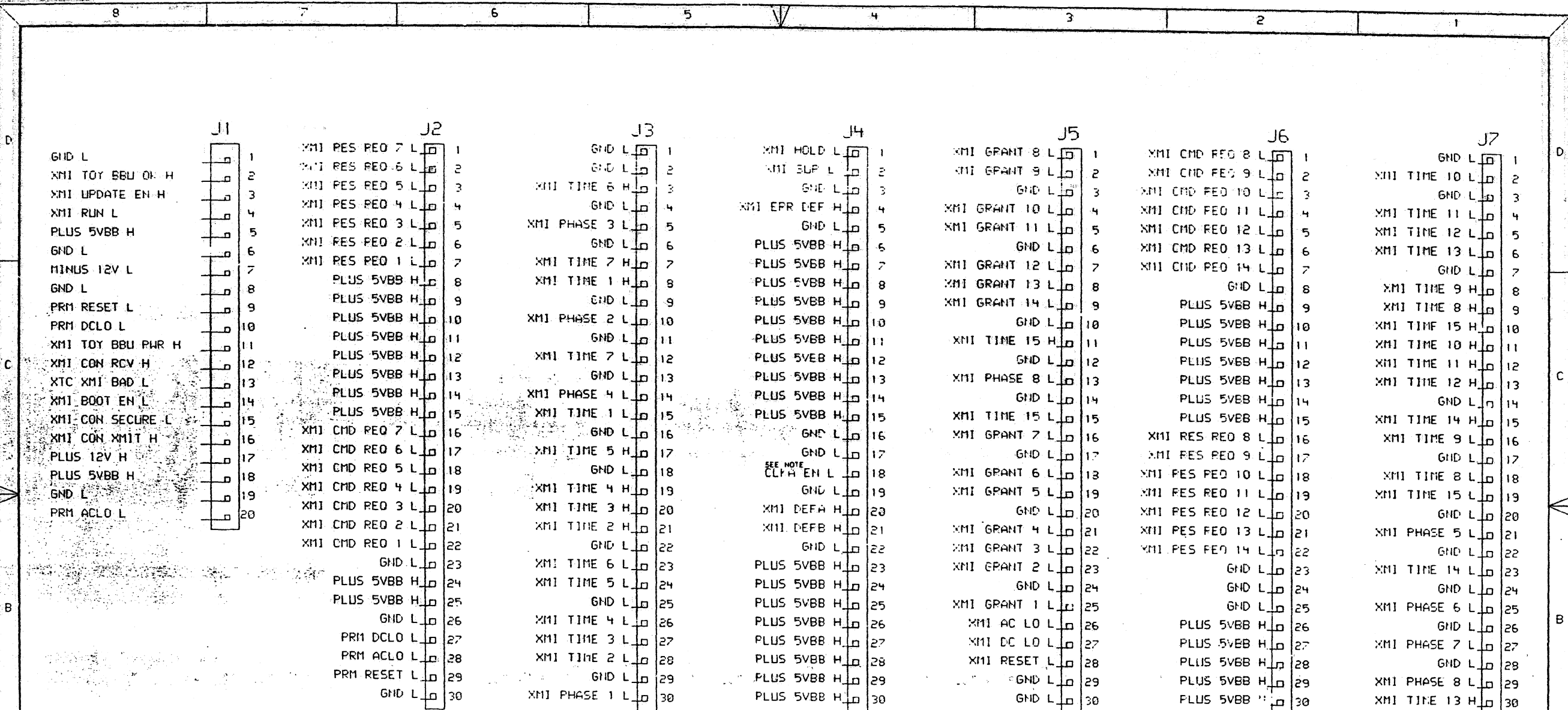
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SIZE K	CODE CS	NUMBER 5418176-2-0009	REV A



I/O CONNECTORS JE10 - JE14

MODULE REV. C2

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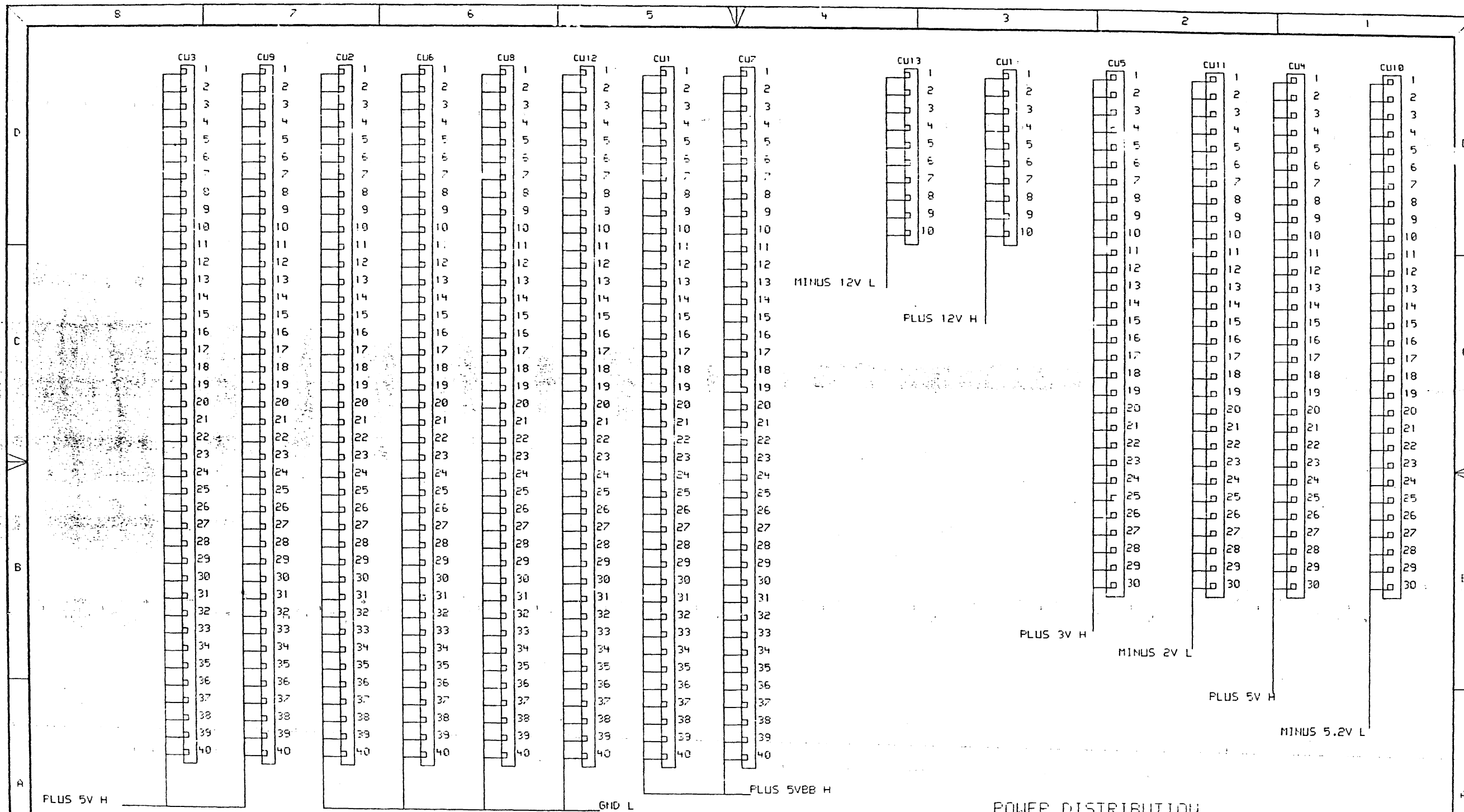


NOTE: CLKA EN L is tied to GND

CLOCK ARBITER CONNECTORS

MODULE REV. C2

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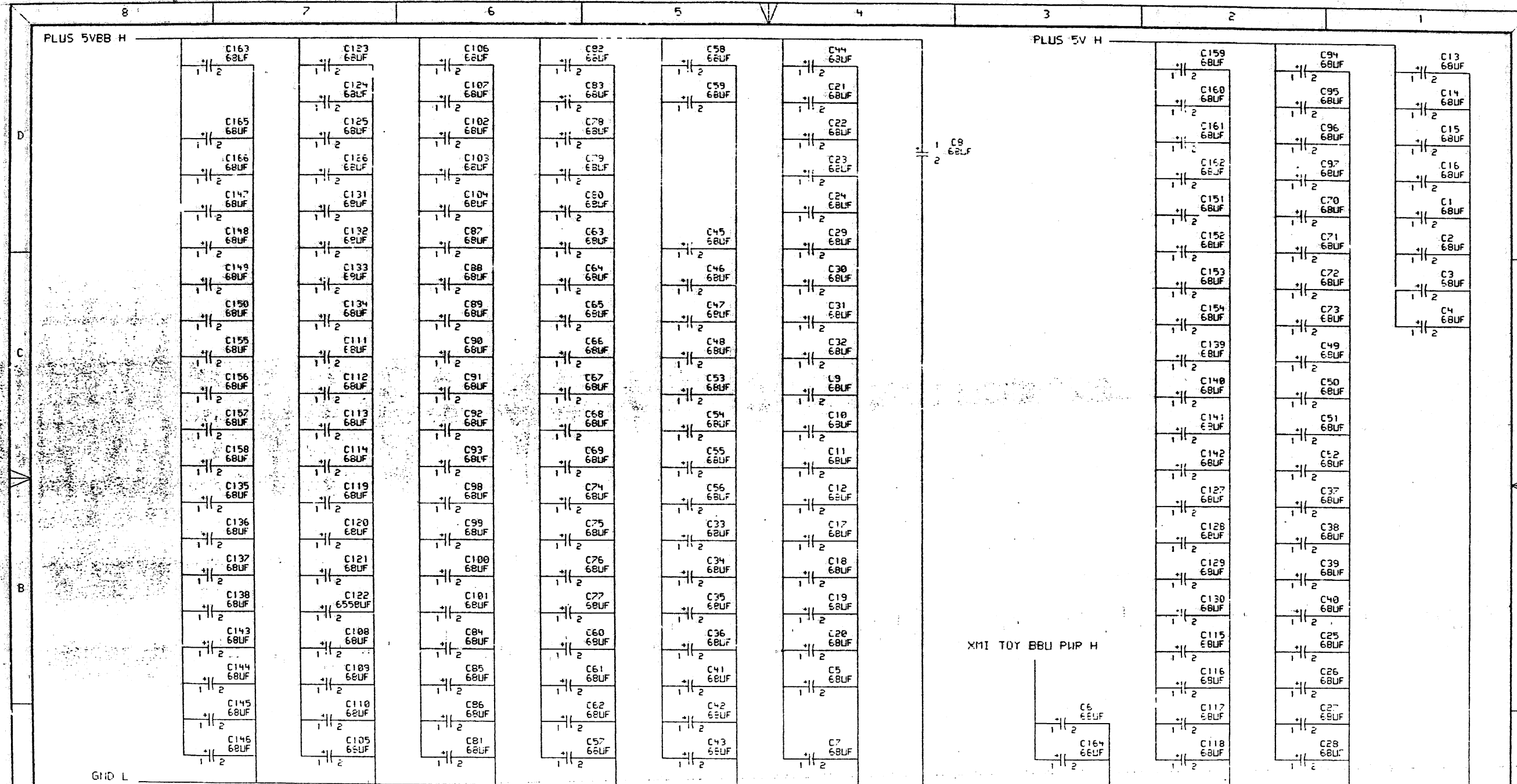
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CHK'D: D. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1	
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TITLE: XMI BACKPLANE 14 SLOT			
SIZE K	CODE CS	NUMBER 5418176-2-0012	REV A



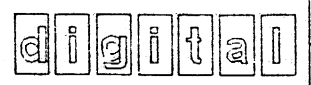
CAPACITORS

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 DATE: 03-MAY-88

ENG: J.STAPLES
 DATE: 12-FEB-87
 SHEET: 1 OF 1
 NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0

TITLE: XMI BACKPLANE 14 SLOT			
SIZE	CODE	NUMBER	REV
K	CS	5418176-2-0013	A

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PLUS 5VBB H

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XMI RES REQ 13 L	R235	1		2	1 K Ohm
XMI RES REQ 12 L	R234	1		2	1 K Ohm
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XMI RES REQ 10 L	R230	1		2	1 K Ohm
XMI RES REQ 9 L	R228	1		2	1 K Ohm
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XMI RES REQ 7 L	R213	2		1	1 K Ohm
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PULLUPS

MODULE REV. C2

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								CHK'D: D. BLANCHARD	DATE 29-FEB-88	SHEET 1 OF 1		NEXT HIGHER ASSEMBLY: K-DD-5418176-0-0	SIZE K	CODE CS	NUMBER 5418176-2-0014

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Last edited by WOOLIE::PVIEW 24-MAY-1988 Prev. file: K_IF_5418176_2_0_A_1

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digital

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SHEET=1 OF 1

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CALYPSO_MOD_DATA.DOCUMENT
K_RM_5418176_0_0_C_1.TXT_RPT

Last edited by WOOLIE::PVIEW 24-MAY-1988 Prev. file: K-ST-5418176-2-0-A-1

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digital

TOP_DOCUMENT= K-DD-5418176-0-0
ENG= B. SIBLEY
LAST_MODIFIED= 5-88

TITLE: BUILD DATA INDEX
COMMENT= DATA INDEX
DESIGN_OBJECT=

ABBREV=

REVISION=

SHEET=1 OF 1

DOC_NUMBER= K-ST-5418176-2-0

DOC_REV A

† AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR	REV	REFERENCE DESIGNATORS
1	1		50-18175-01		DRILL AND ETCH BOARD	1			
2	2		10-24455-26		68 IFC 6.0V +-20% CHI	166			C1-C166
3	3		12-17919-01		CONN. POWER 10PIN	2			CU13, CU14
4	4		12-20547-07		PCB HEADER 20POS 2X10 .100CC STP	1			J1
5	5		12-23222-04		BACKPLANE POWER STRIP 40PIN	8			CU1-CU3, CU6-CU9, CU12
6	6		12-23222-05		BACKPLANE POWER STRIP 30PIN	2			CU4, CU11
7	7		12-23222-06		BACKPLANE POWER STRIP 30PIN	2			CU5, CU10
8	8	SEE NOTE # 8	12-27111-01		PCB HEADER 30POS (02X15) .100CC	46			J2-J47
9	9		13-23828-11		127.0 .25 W 1.0 % CHIP	28			R20, R21, R28, R38, R43, R91, R94, R95, R100-R105, R109, R110, R140, R151, R159, R166, R188, R190-R194, R202, R205
10	10		13-23828-18	150.0	.25 W 1.0 % CHIP	154			R3-R19, R22-R26, R29-R36, R39-R11, R44-R52, R54, R57, R58, R60-R70, R72-R87, R92, R93, R97-R99, R106, R107, R111, R113, R115-R118, R120-R125, R127, R128, R132-R133, R141-R150, R152-P158, R161, R165, R169-R174, R176-R180, R182-R187, R189, R195-R201, R203, R204, R206-P211
11	11		13-23828-68	493.0	.25 W 1.0 % CHIP	28			R1, R2, R27, R37, R42, R53, R55, R56, P59, R71, R88-R90, R96, R112, R114, R119, R126, R129-R131, R150, R162-R164, R167, P175, R181
12	12		13-23829-01		1.00 K .25 W 1.0 % CHIP	32			R108, R212-P242
13	13				*** THIS ITEM IS NOT USED ***	-			

8 NOTE: ITEM #8, J8-J47 ARE NOT REFERENCED IN VLS DATABASE, BUT ARE REAL 54 LEVEL PARTS.

REVISION HISTORY		KPL MODULE FORMAT SECTION A OF A		DRN: C. HARTEL		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D:	T. MCCULLOUGH	TITLE:	PARTS LIST
JO	INITIAL	A	[A] 01 [M] [N] [P] [Q] [R] [S] [T] [V] [W] [Y]	DATE:	15-FEB-88	(14 SLOT)	
				DES. ENG:	J. STAPLES	DOCUMENT NUMBER:	
				DATE:	15-FEB-88	SIZE: COPE:	NUMBER
				PESP. ENG.:	J. OBBARD	PL	5418176-2-CBP
				DATE:	15-FEB-88	RELEASE DATE:	
				MFG. ENG.:	J. SVEC	RELEASE STATUS:	UNDER CHANGE
				DATE:	15-FEB-88		
				BASIC PART NUMBER:	5418176	ASSEMBLY NUMBER:	E-0A-5418176-2-0
				TOP DOCUMENT NUMBER:	K-00-5418176-0-0	FILE NAME:	541817602.PLS
				EDIT #			2

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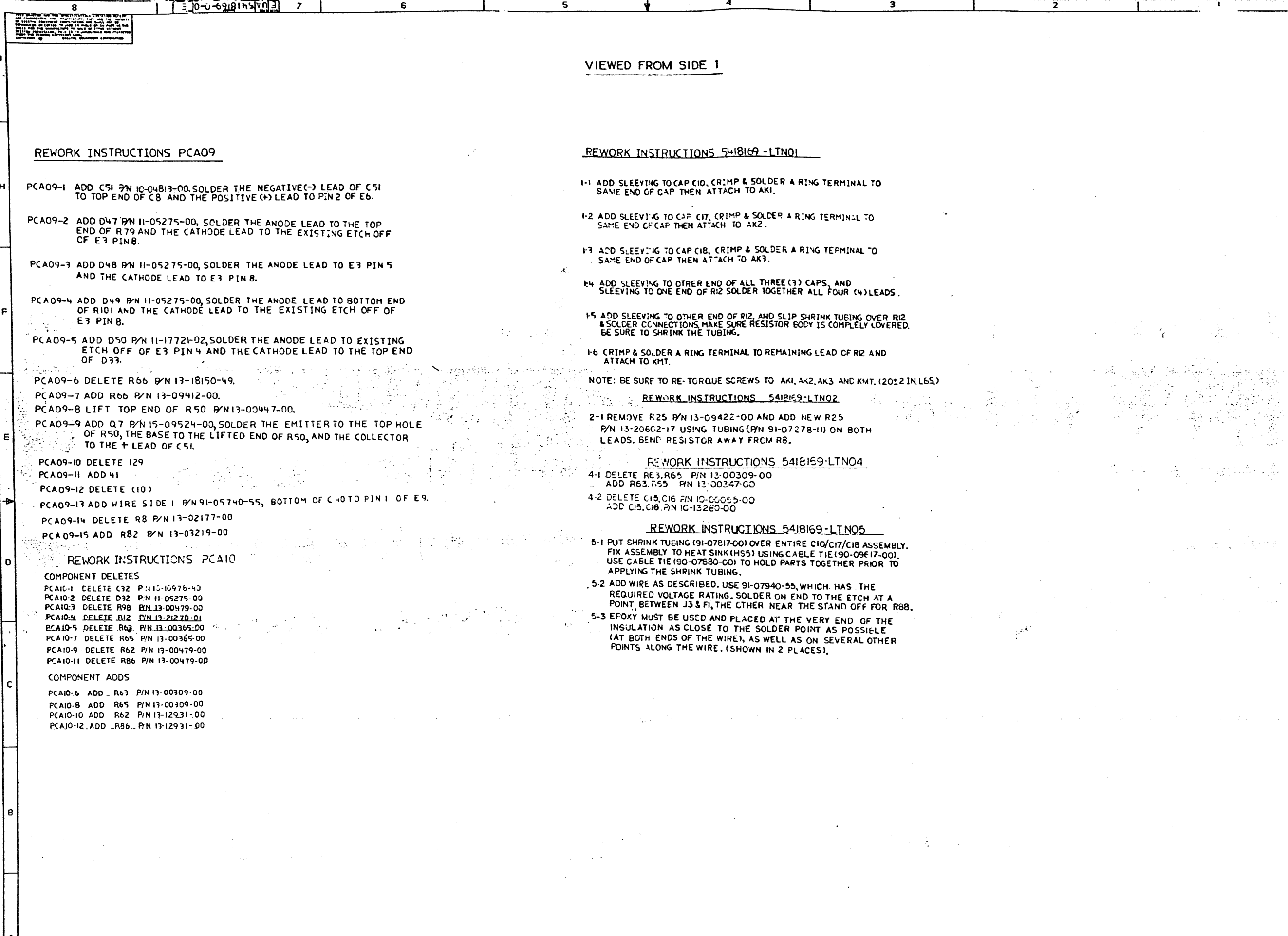
DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS							
		54-18169-01	AC INPUT FAN POWER MODULE	A1	B1	B2	C2	D2	E2	E2	F2
E-UA-5418169-0-0	2		AC INPUT FAN POWER MODULE	A	B	C	C	D	E	E	
B-CS-5418169-0-1	4		AC INPUT FAN POWER MODULE	A	B	C	C	D	D	D	
K-PL-5418169-0-DBP	4		AC INPUT FAN POWER MODULE	A	B	C	D	E	F	F	
K-CS-5418169-0-DBX	-		AC INPUT FAN POWER MODULE	A	B	C	C	D	D	D	
K-PC-5418169-0-DBA	-		P.C. DESIGN DATA BASE	A	A	A	A	A	A	A	
		50-18168-0-0	ETCHED CIRCUIT BOARD DRAWING DIRECTORY	D1	D1	D1	D1	D1	D1	D1	E1
K-DD-5018168-0-0	1			A	A	A	A	A	B	B	C
E-UA-5418169-0-1											A
B-CS-5418169-0-2											A
K-PL-5418169-0-DBP1											A
K-CS-5418169-0-DBX1											A
K-PC-5418169-0-DBA1											A

NOTES:

REV	A	B	C	D	E	F	H	H
E	I	L	L	L	L	L	L	L
C	N	T	T	T	T	T	T	T
O	I	N	N	N	N	N	N	N
N	T	O	O	O	O	O	O	O
O		1	2	3	4	5	6	6
D	J	O	N	M	M	J	J	J
A	U	C	O	A	A	U	U	U
T	I	N	V	R	Y	L	L	L
E	18	8	8	8	8	8	8	8
	17	7	7	8	8	8	8	8

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DRN: S. BOSWORTH	DATE: 7-JUL-86	d i g i t a l	
CHK'D: C. LIVIERATOS	DATE: 7-JUL-86	TITLE AC INPUT FAN POWER MODULE	
DES.ENG.: C. MULQUEENEY	DATE: 7-JUL-86	SHEET 1 OF 1	EDIT: 18
RESP.ENG.: D. CALDERAN	DATE: 7-JUL-86	DOCUMENT NUMBER	
		DD FILENAME: 5418169H.DDF	
MFG.ENG.: J. TUCKER	DATE: 7-JUL-86	SIZE: K	CODE: DD
		NUMBER: 5418169-0-0	REV: H



REWORK INSTRUCTIONS 5418169-LTN01

VIEWED FROM SIDE 1

REWORK INSTRUCTIONS PCA09

- PCA09-1 ADD C51 P/N 10-04813-00, SOLDER THE NEGATIVE (-) LEAD OF C51 TO TOP END OF C8 AND THE POSITIVE (+) LEAD TO PIN 2 OF E6.
- PCA09-2 ADD D47 P/N 11-05275-00, SOLDER THE ANODE LEAD TO THE TOP END OF R79 AND THE CATHODE LEAD TO THE EXISTING ETCH OFF OF E3 PIN 8.
- PCA09-3 ADD D48 P/N 11-05275-00, SOLDER THE ANODE LEAD TO E3 PIN 5 AND THE CATHODE LEAD TO E3 PIN 8.
- PCA09-4 ADD D49 P/N 11-05275-00, SOLDER THE ANODE LEAD TO BOTTOM END OF R101 AND THE CATHODE LEAD TO THE EXISTING ETCH OFF OF E3 PIN 8.
- PCA09-5 ADD D50 P/N 11-17721-02, SOLDER THE ANODE LEAD TO EXISTING ETCH OFF OF E3 PIN 4 AND THE CATHODE LEAD TO THE TOP END OF D33.
- PCA09-6 DELETE R66 P/N 13-18150-49.
- PCA09-7 ADD R66 P/N 13-09412-00.
- PCA09-8 LIFT TOP END OF R50 P/N 13-00447-00.
- PCA09-9 ADD Q7 P/N 15-09524-00, SOLDER THE EMITTER TO THE TOP HOLE OF R50, THE BASE TO THE LIFTED END OF R50, AND THE COLLECTOR TO THE + LEAD OF C51.
- PCA09-10 DELETE I29
- PCA09-11 ADD 41
- PCA09-12 DELETE (10)
- PCA09-13 ADD WIRE SIDE 1 P/N 91-05740-55, BOTTOM OF C40 TO PIN 1 OF E9.
- PCA09-14 DELETE R8 P/N 13-02177-00
- PCA09-15 ADD R82 P/N 13-03219-00

REWORK INSTRUCTIONS PCA10

COMPONENT DELETES

- PCA10-1 DELETE C32 P/N 10-10976-40
- PCA10-2 DELETE D32 P/N 11-05275-00
- PCA10-3 DELETE R98 P/N 13-00479-00
- PCA10-4 DELETE R12 P/N 13-21270-01
- PCA10-5 DELETE R69 P/N 13-00365-00
- PCA10-7 DELETE R65 P/N 13-00365-00
- PCA10-9 DELETE R62 P/N 13-00479-00
- PCA10-11 DELETE R86 P/N 13-00479-00

COMPONENT ADDS

- PCA10-6 ADD R63 P/N 13-00309-00
- PCA10-8 ADD R65 P/N 13-00309-00
- PCA10-10 ADD R62 P/N 13-12931-00
- PCA10-12 ADD R86 P/N 13-12931-00

REWORK INSTRUCTIONS 5418169-LTN01

- I-1 ADD SLEEVING TO CAP C10, CRIMP & SOLDER A RING TERMINAL TO SAME END OF CAP THEN ATTACH TO AK1.
- I-2 ADD SLEEVING TO CAP C17, CRIMP & SOLDER A RING TERMINAL TO SAME END OF CAP THEN ATTACH TO AK2.
- I-3 ADD SLEEVING TO CAP C18, CRIMP & SOLDER A RING TERMINAL TO SAME END OF CAP THEN ATTACH TO AK3.
- I-4 ADD SLEEVING TO OTHER END OF ALL THREE (3) CAPS, AND SLEEVING TO ONE END OF R12 SOLDER TOGETHER ALL FOUR (4) LEADS.
- I-5 ADD SLEEVING TO OTHER END OF R12, AND SLIP SHRINK TUBING OVER R12 & SOLDER CONNECTIONS, MAKE SURE RESISTOR BODY IS COMPLETELY COVERED, BE SURE TO SHRINK THE TUBING.
- I-6 CRIMP & SOLDER A RING TERMINAL TO REMAINING LEAD OF R12 AND ATTACH TO KMT.

NOTE: BE SURE TO RE-TORQUE SCREWS TO AK1, AK2, AK3 AND KMT. (20±2 IN LBS.)

REWORK INSTRUCTIONS 5418169-LTN02

- 2-1 REMOVE R25 P/N 13-09422-00 AND ADD NEW R25 P/N 13-20602-17 USING TUBING (P/N 91-07278-11) ON BOTH LEADS. BEND RESISTOR AWAY FROM R8.

REWORK INSTRUCTIONS 5418169-LTN04

- 4-1 DELETE R63, R65 P/N 13-00309-00
ADD R63, R65 P/N 13-00347-00
- 4-2 DELETE C15, C16 P/N 10-00055-00
ADD C15, C16 P/N 10-13280-00

REWORK INSTRUCTIONS 5418169-LTN05

- 5-1 PUT SHRINK TUBING (91-07817-00) OVER ENTIRE C10/C17/C18 ASSEMBLY. FIX ASSEMBLY TO HEAT SINK (HS5) USING CABLE TIE (90-09617-00). USE CABLE TIE (90-07880-00) TO HOLD PARTS TOGETHER PRIOR TO APPLYING THE SHRINK TUBING.
- 5-2 ADD WIRE AS DESCRIBED, USE 91-07940-55, WHICH HAS THE REQUIRED VOLTAGE RATING. SOLDER ON END TO THE ETCH AT A POINT BETWEEN J3 & F1, THE OTHER NEAR THE STAND OFF FOR R88.
- 5-3 EFOXY MUST BE USED AND PLACED AT THE VERY END OF THE INSULATION AS CLOSE TO THE SOLDER POINT AS POSSIBLE (AT BOTH ENDS OF THE WIRE), AS WELL AS ON SEVERAL OTHER POINTS ALONG THE WIRE. (SHOWN IN 2 PLACES).

8

1-8-69101ns

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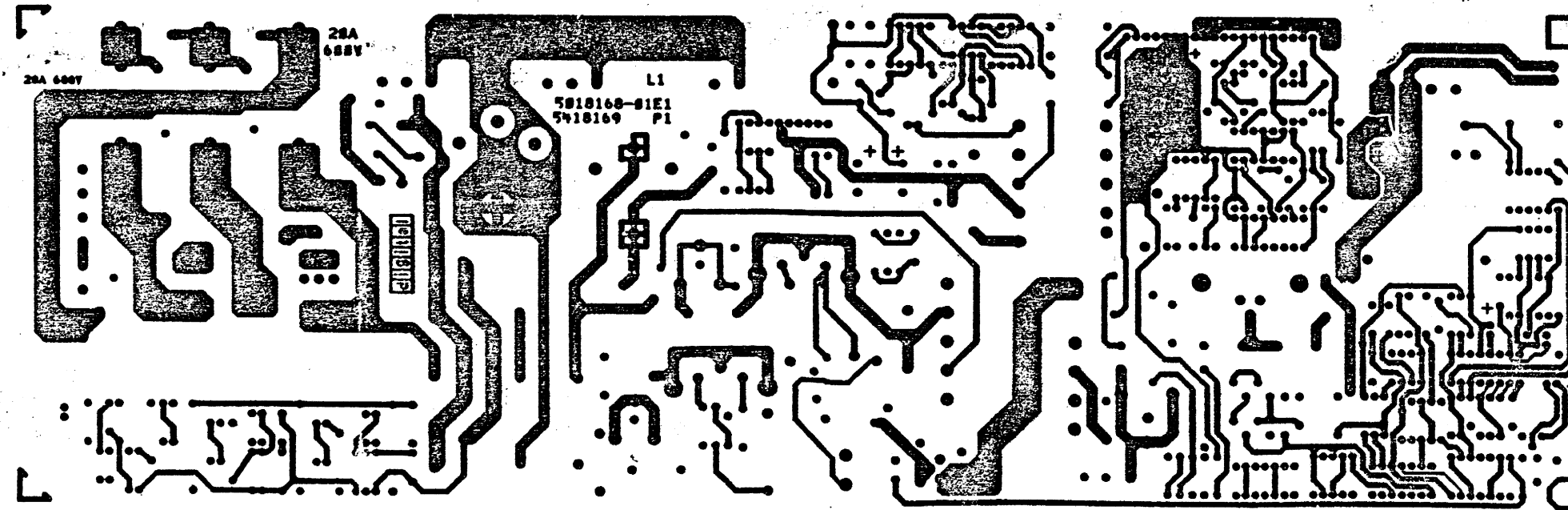
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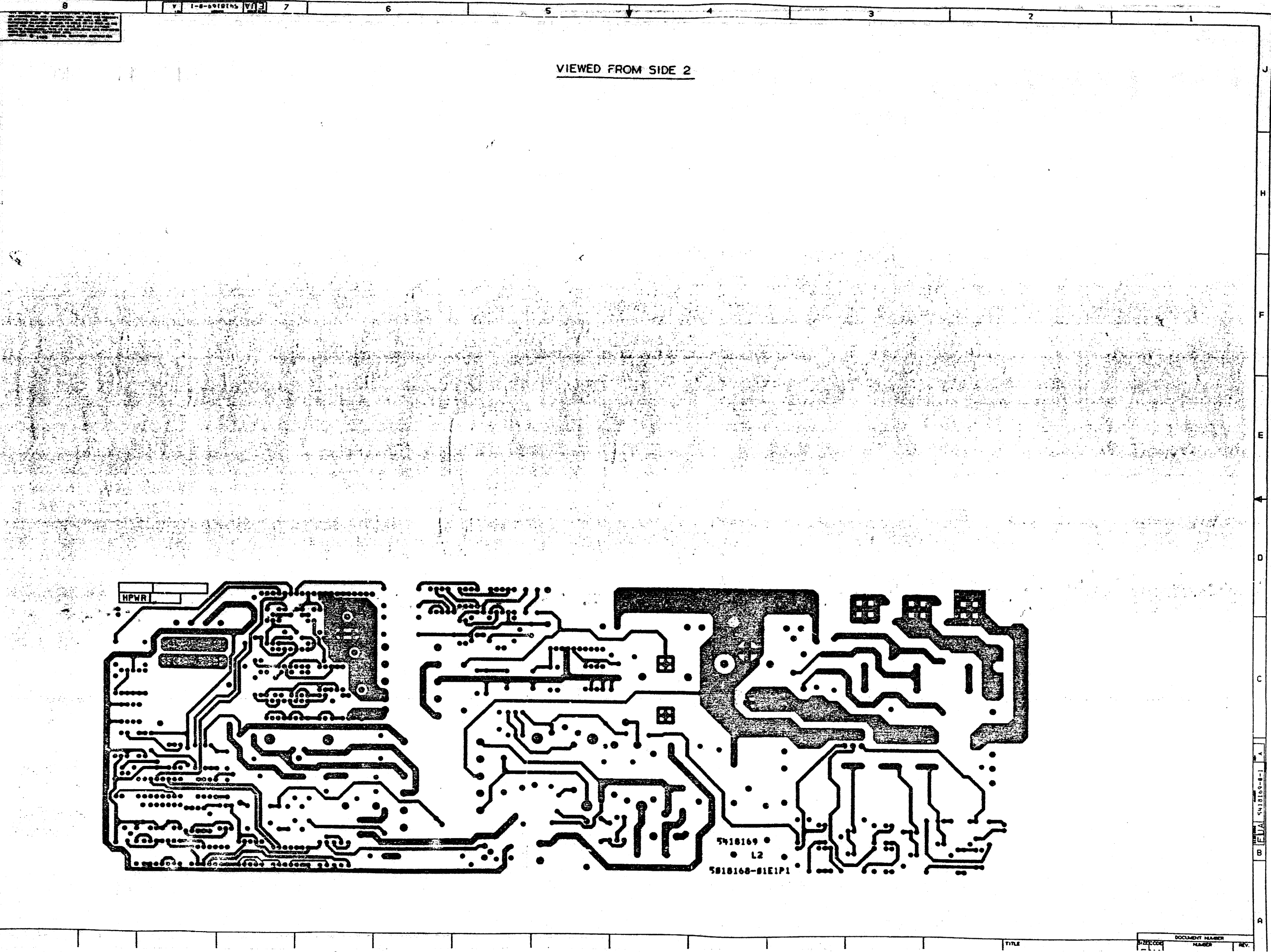
J
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VIED FROM SIDE 1



5010168-01E1



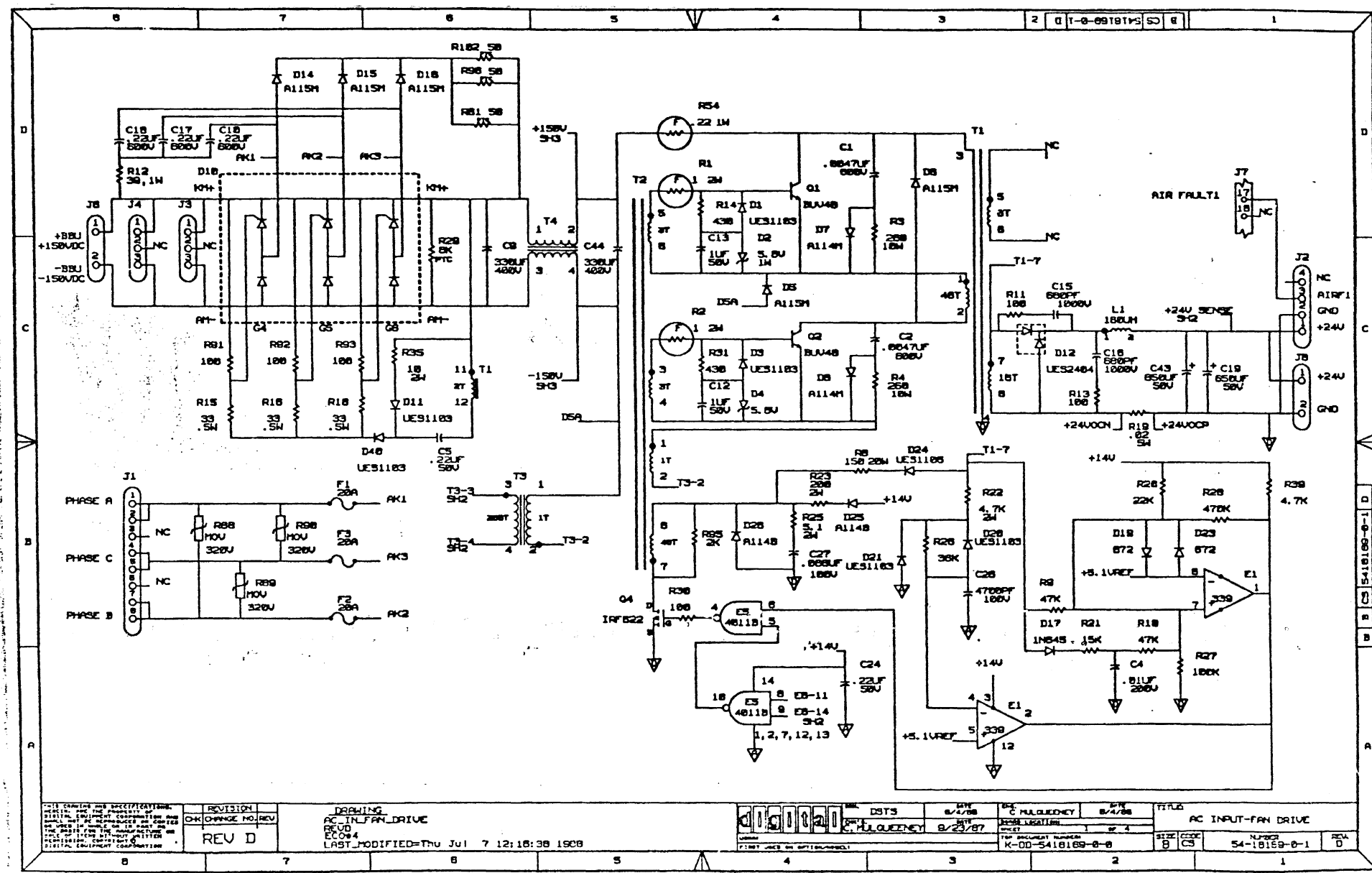
VIEWED FROM SIDE 2

HPWR

5418169
L2
5818168-81E1P1

5418169-1
A
B
C
D
E
F
H
J

TITLE
DOCUMENT NUMBER
PAGE
REV.



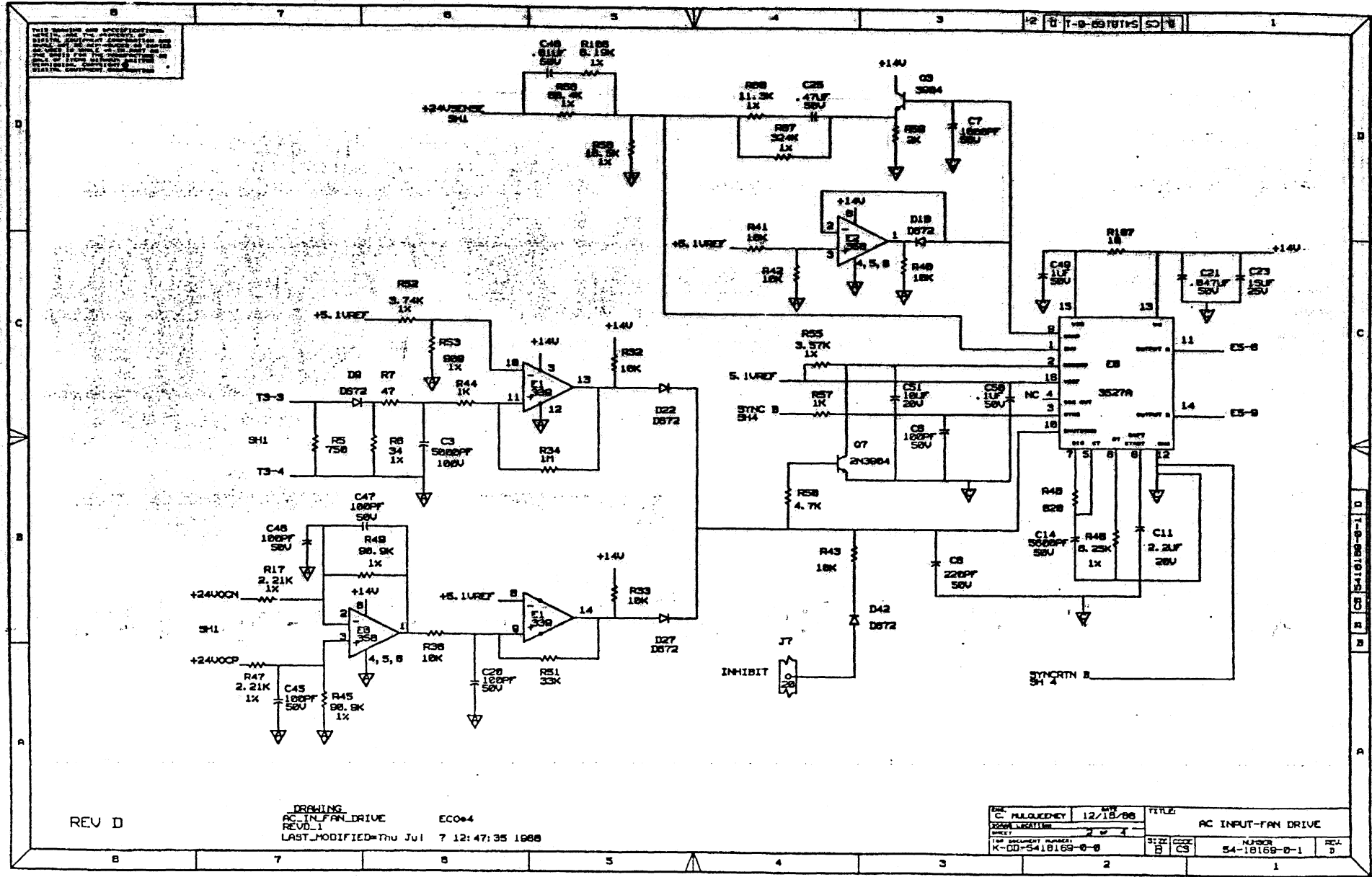
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REV	DESCRIPTION	DATE
REV D		

DRAWING
 AC IN/FAN DRIVE
 REV D
 ECU-4
 LAST MODIFIED=THU Jul 7 12:18:38 1998

DESIGNER	DATE	CHK'D	DATE	APP'D	DATE	TITLE
C. MALOUEZNEY	8/23/87	C. MALOUEZNEY	8/23/87			AC INPUT-FAN DRIVE

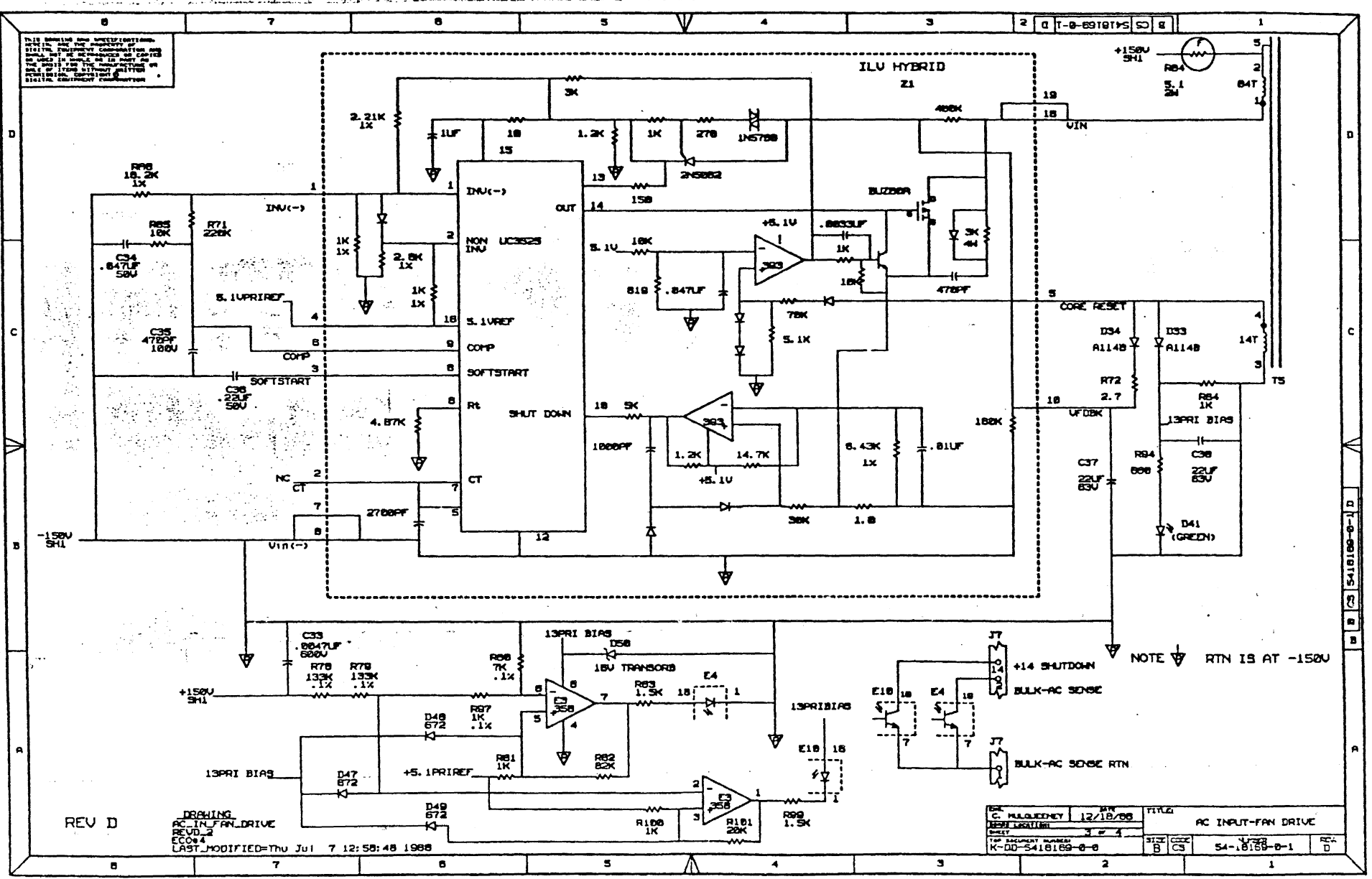
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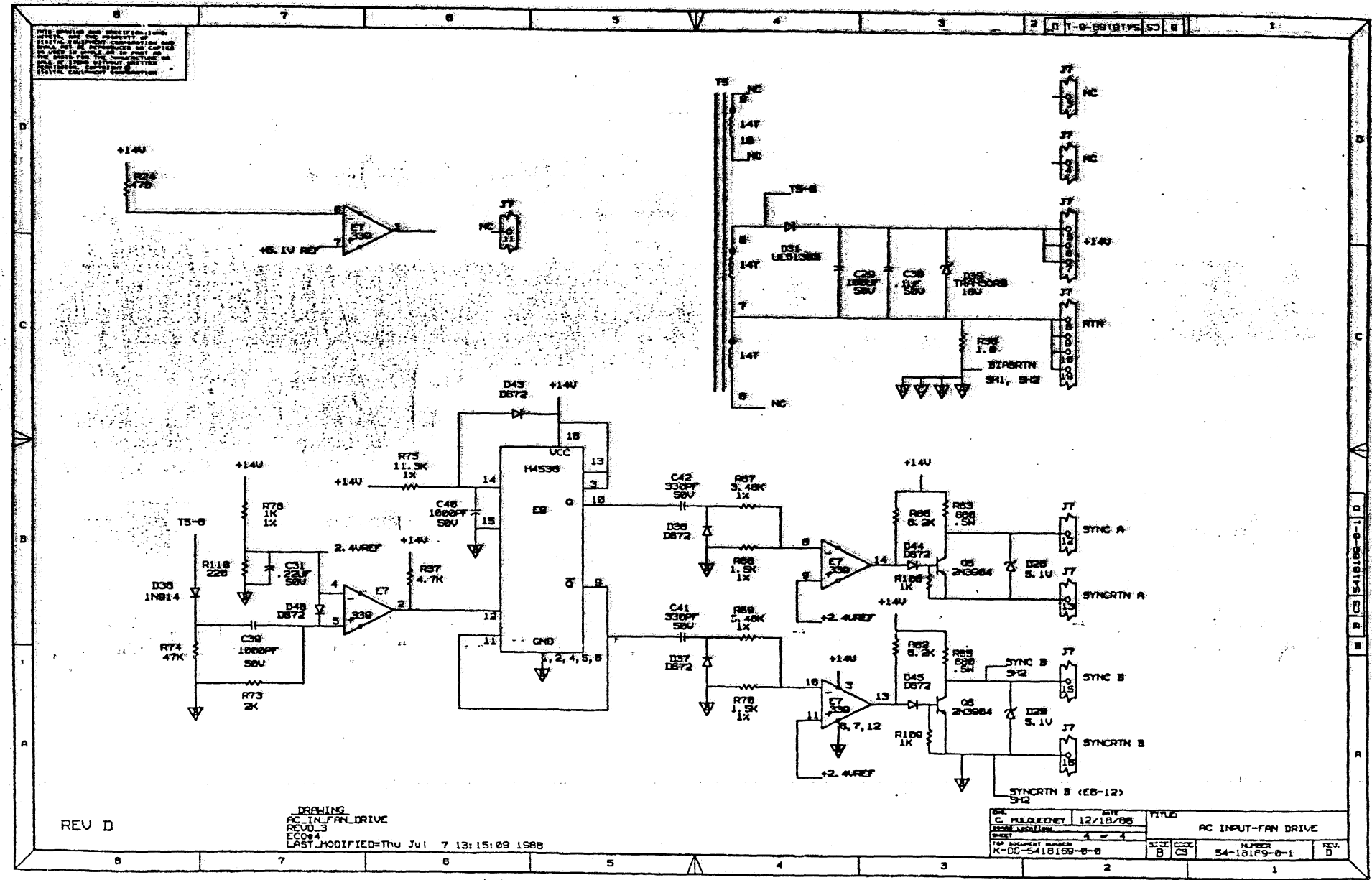


REV D

DRAWING
AC IN/FAN DRIVE ECO#4
REV D
LAST_MODIFIED=Thu Jul 7 12:47:35 1988

DESIGNER	C. HILGREN	DATE	12/18/88	TITLE	AC INPUT-FAN DRIVE
APPROVED					
PROJECT					
DOCUMENT NUMBER	K-DD-5418189-0-0	SIZE	B	QUANTITY	CS
				NUMBER	54-18189-0-1
				REV	D





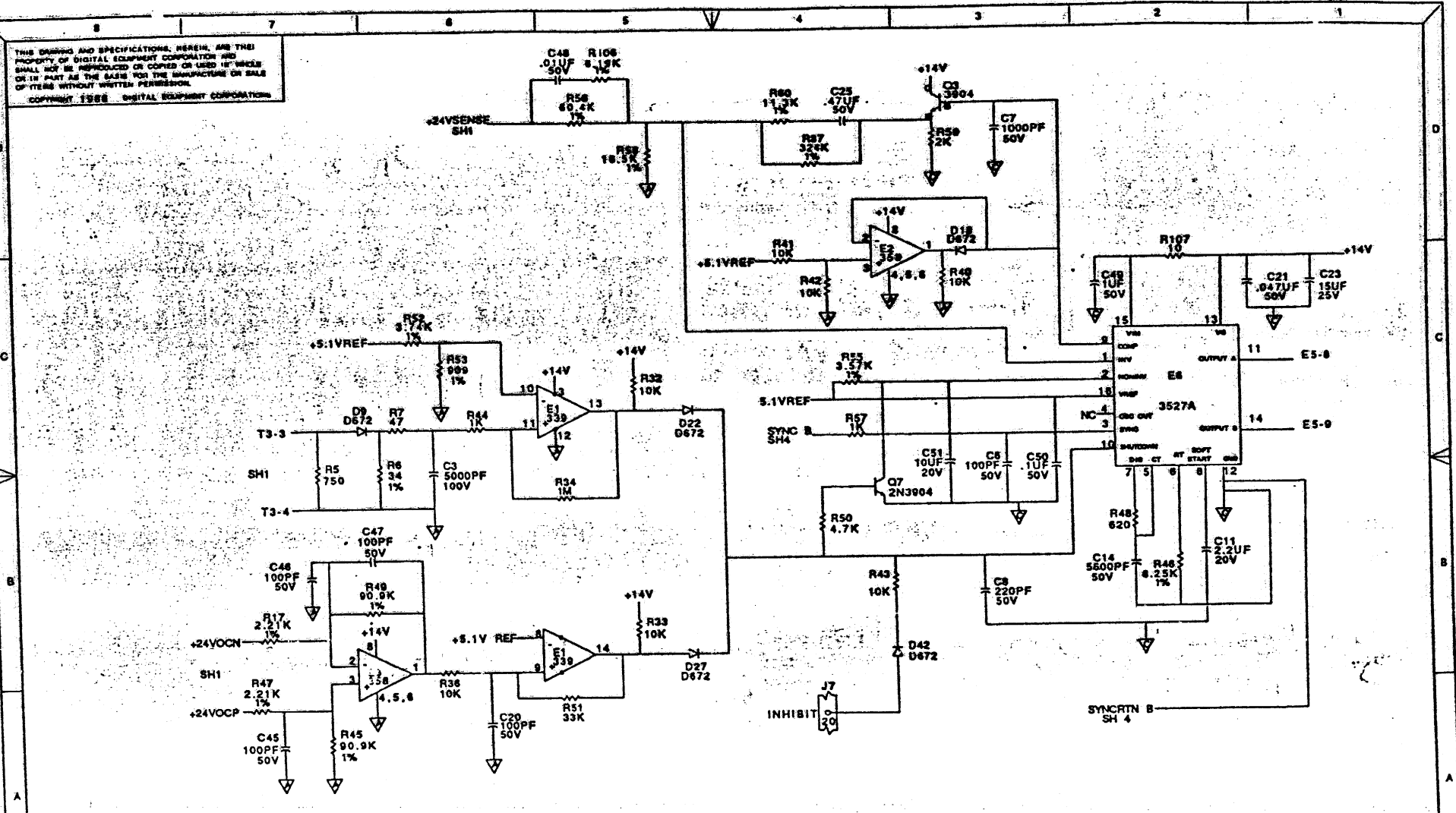
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REV D

DRAWING
 AC INPUT FAN DRIVE
 REV. 5
 ECC#4
 LAST MODIFIED=THU JUL 7 13:15:09 1988

DESIGNER	C. H. QUIGLEY	DATE	12/18/88	TITLE	AC INPUT-FAN DRIVE
DESIGNATION					
PROJECT					
TAP DOCUMENT NUMBER	X-00-5416188-8-8	SIZE	B	QUANTITY	3
				NUMBER	54-18189-8-1
				REV	D

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REVISION HISTORY		
REV	ECO NUMBER	DATE
A	ECO #5	11/8/88

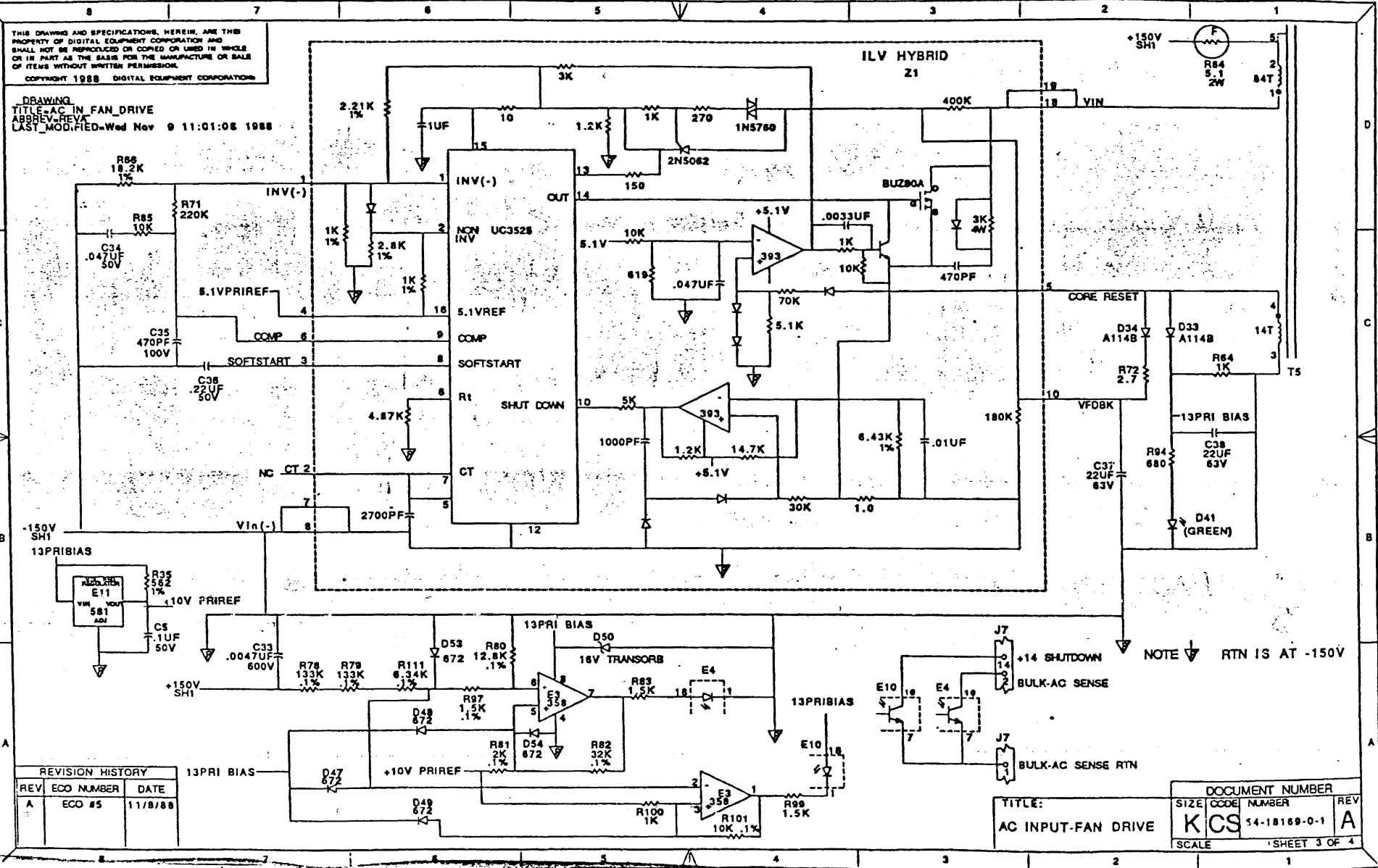
TITLE-AC IN FAN_DRIVE
 ABBREV-REV A
 LAST_MODIFIED-Wed Nov 9 10:52:32 1988

TITLE:
 AC INPUT-FAN DRIVE

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
K	CS	418169-0.2	A
SCALE			SHEET 2 OF 4

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DRAWING
 TITLE-AC IN FAN DRIVE
 ABBREV-REV
 LAST_MODIFIED-Wed Nov 9 11:01:08 1988



REVISION HISTORY		
REV	ECO NUMBER	DATE
A	ECO #5	11/8/88

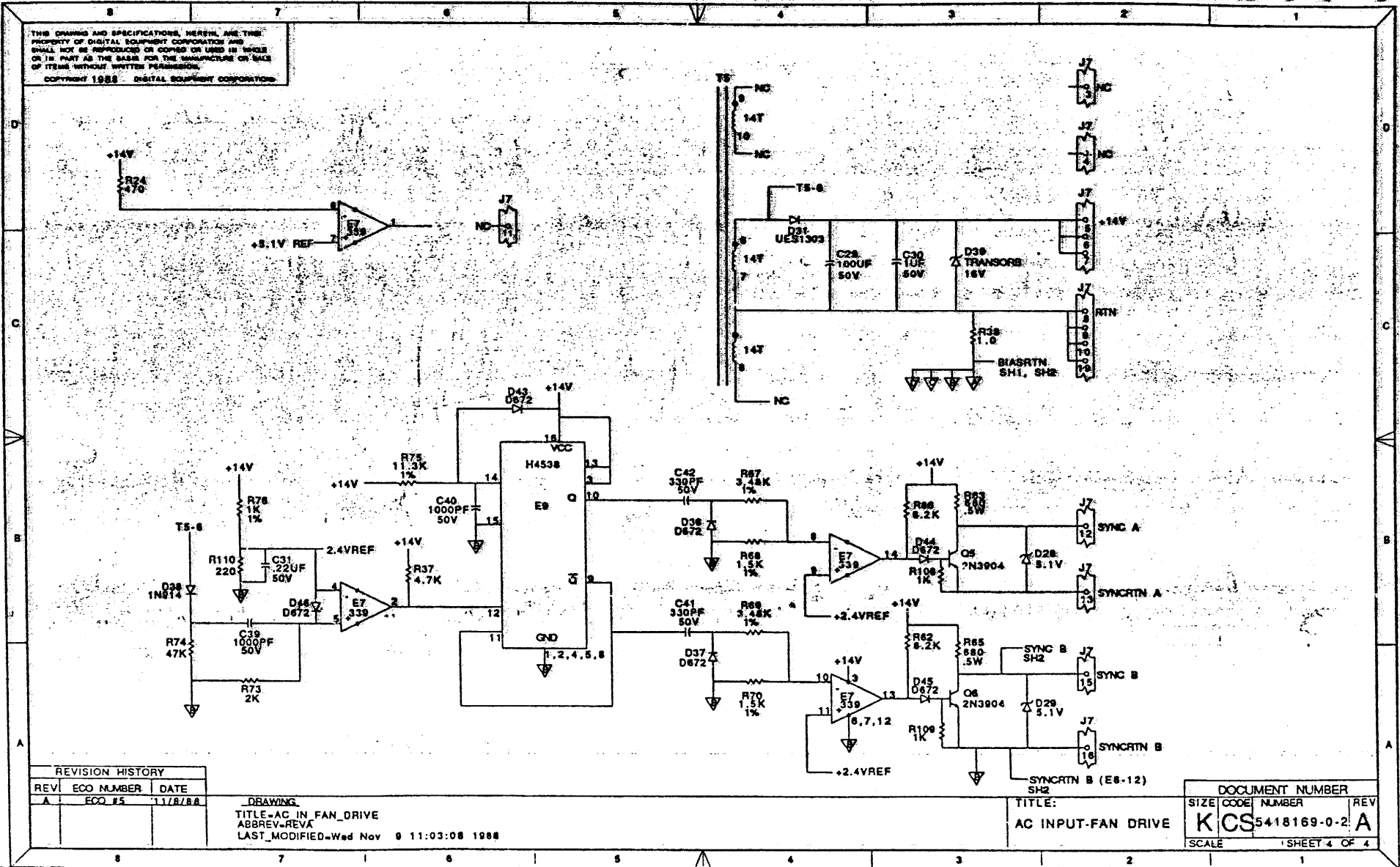
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DOCUMENT NUMBER		
SIZE	CODE NUMBER	REV
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SCALE: SHEET 3 OF 4

NOTE: RTN IS AT -150V

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REVISION HISTORY		
REV	ECO NUMBER	DATE
A	ECO #5	11/8/88

DRAWING
 TITLE-AC IN FAN_DRIVE
 ABBREV-REV A
 LAST_MODIFIED-Wed Nov 9 11:03:08 1988

TITLE:
 AC INPUT-FAN DRIVE

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
KCS		5418169-0-2	A
SCALE			SHEET 4 OF 4

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV 01 E2	REFERENCE DESIGNATORS
1	D-MD-5018168-0-0	50-18168-01		DRILL AND ETCH BOARD	1	
2		10-00024-00	470	PFD 100V +/- 5% 200PP	1	C35
3		10-01765-00	5000	PFD 100V +/-20% Z5T	1	C3
4		10-16681-00	0.47	MFD 50V +80/-20% Z5U C	1	C25
5		10-09312-00	4700	PFD 100V +/- 1% POLYP	1	C26
6		10-10274-02	1.0	MFD 50V +80/-20% Z5U C	3	C12,C13,C49
7		10-10978-40	0.22	MFD 50V +/-10% X7R C	2	C5,C31
8		10-11847-03	4700	PFD 600V +/-10% POLYP	3	C1,C2,C33
9		10-12784-00	0.047	MFD 50V +80/-20% Z5U C	2	C21,C34
10		10-13466-06	100	PFD 50V +/- 5% NP0 C	5	C6,C20,C45-C47
11		10-13466-07	220	PFD 50V +/- 5% NP0 C	1	C8
12		10-15573-01	5600	PFD 50V +/- 5% X7R C	1	C14
13		10-13280-00	680	PFD 1000V +/- 5% 200PP	2	C15,C16
14		10-04813-00	10	MFD 20V +/-10% SOL	1	C51
15		10-13466-18	330	PFD 50V +/- 5% NP0 C	2	C41,C42
16		10-13466-22	0.10	MFD 50V +80/-20% Z5U C	2	C30,C50
17		10-13466-36	1000	PFD 50V +/- 2% NP0 C	3	C7,C39,C40
18		10-27197-01	650	MFD 50V +75/-10% ALU	2	C19,C43
19		10-16639-00	0.010	MFD 200V +/-10% MYLAR	1	C4
20		10-17897-01	0.22	MFD 50V +80/-20% Z5U C	1	C24
21		10-02627-00	2.2	MFD 20V +/-10% SOL	1	C11
22		10-18000-01	15	MFD 25V +50/-20% ALU	1	C23
23		10-23072-01	100	MFD 50V +75/-10% ALU	1	C29
24		10-23976-01	22	MFD 63V +/-20% ALU	2	C37,C38
25		90-00049-21		SCREW,SEMS PAN PHIL 6-	3	
26		11-19609-02		RECT.FAST RECOVERY PIV= 400 IO=	1	D24
27				*** THIS ITEM IS NOT USED ***	-	
28		11-05275-00		PIV= 60 IO=300 MA -15NS	16	D9,D18,D19,D22,D23,D27,D36,D37, CONT D42-D49
29		11-05314-00		PIV= 225 IO= .40A 1N645 DO-7	1	D17

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A	DRN: S. BOSWORTH	DIGIT A L				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 10-FEB-88						
CM	LTN02	C	[A]	01	[M]	CHK'D: C. LIVIERATOS	TITLE PARTS LIST				
CM	5418169-LTN04	E	[B]		[N]	DATE: 27-APR-87	AC INPUT/FAN DRIVE				
CM	5418169-LTN05	F	[C]		[P]	DES.ENG: C. MULQUEENEY	DOCUMENT NUMBER				
			[D]		[Q]	DATE: 25-AUG-87	SIZE	CODE	NUMBER	REV	
			[E]		[R]	RESP.ENG.: D. CALDERAN	K	PL	5418169-0-DBP	F	
			[F]		[S]	DATE: 25-AUG-87	RELEASE DATE: 23-AUG-88				
			[H]		[T]	MFG.ENG: J. TUCKER	RELEASE STATUS: RELEASED				
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			[L]		[Y]						
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5418169			E-UA-5418169-0-0		K-DD-5418169-0-0			4			
FILE NAME: LTN124F.PLS											

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						01		
						E2		
30	30				*** THIS ITEM IS NOT USED ***	-		
31	31		11-05871-00		VZ= 5.15 1% 250 MW	2		D28,D29
32	32		11-09197-00		VZ= 5.6 5% 1 W 1N4734A	2		D2,D4
33	33		11-09517-00		PIV= 75 IO=150 MA - 4NS 1N914B	1		D38
34	34		11-12594-02		PIV= 600 IO= 3.00A	5		D5,D6,D14-D16
35	35		11-12595-01		PIV= 200 IO= 1.00A AXIAL	4		D25,D26,D33,D34
36	36		11-12595-02		PIV= 600 IO= 1.00A AXIAL	2		D7,D8
37	37		11-15465-01		RECT,ULTRA FAST PIV=150 IO= 2.0	6		D1,D3,D11,D20,D21,D40
38	38		11-17555-01		RECT,ULTRA FAST PIV= 200 IO=16.0	1		D12
39	39		11-17721-02		TRANS.SUPP. 16V 5W	2		D39,D50
40	40	SEE NOTE 3 & 4	11-25844-02		SCR PIV= 400 IO=100.0A BRIDGE	1		D10
41	41		90-10413-04		RIVET,BLIND,BINDER .125DX .225	10		
42	42		12-21027-02		MATE-N-LOK 02PIN(1X02).250CC HDR	1		J6
43	43		12-21027-03		MATE-N-LOK 04PIN(1X02).250CC HDR	1		J2
44	44		12-21027-04		MATE-N-LOK 08PIN(1X08).250CC HDR	1		J1
45	45		12-12531-01		HEAT SINK,TO-3 2.187X01.3	1		HS2
46	46		12-18243-02		PCB HEADER 02PIN(1X02).100CC STR	1		J8
47	47		12-18243-04		PCB HEADER 20PIN(1X20).100CC STR	1		J7
48	48		12-27850-01		HEAT SINK	2		HS3,HS4
49	49		12-21027-01		MATE-N-LOK 03PIN(1X03).250CC ASS	2		J3,J4
50	50		74-30840-01		GUIDE,HYBRID	1		
51	51		12-17194-00		FUSE CLIP 5AG TYPE	6		
52	52		12-28198-01		HEAT SINK	1		HS5
53	53		12-22573-01		FUSE 5AG 20 A 600V NORM-BLOW	3		F1-F3
54	54		13-22504-01		VARISTOR 320VAC VOLT TRANS SUP	3		R88-R90
55	55		10-26378-01		330 MFD 400V +/-20% ALU	2		C9,C44
56	56		13-00195-00		33.0 .50 W 5.0 % CF	3		R15,R16,R18
57	57		13-26926-01		THERMISTOR PTC 50 20%	3		R61,R96,R102
58	58		13-27196-02		150.0 20.0 W 5.0 % WW	1		R8
59	59		13-00202-00		47.0 .25 W 5.0 % CF	1		R7
60	60		13-00229-00		100.0 .25 W 5.0 % CF	6		R11,R13,R30,R91-R93
61	61		13-12546-00		16.50 K .25 W 1.0 % RN55D-F10	1		R58
62	62		13-00365-00		1.0 K .25 W 5.0 % CF	7		R44,R57,R64,R81,R100,R108,R109
63	63		13-05114-00		3.48 K .25 W 1.0 % RN55D-F10	2		R67,R69
64	64		13-00447-00		4.70 K .25 W 5.0 % CF	3		R37,R39,R50
65	65		13-00479-00		10.0 K .25 W 5.0 % CF	8		R32,R33,R36,R40-R43,R85
66	66		13-00496-00		15.0 K .25 W 5.0 % CF	1		R21
67	67		13-01401-00		750.0 .25 W 5.0 % CF	1		R5
68	68		13-01808-00		22.0 K .25 W 5.0 % CF	1		R20
69	69		13-18150-70		34.0 .25 W 1.0 % RN55D-F10	1		R6
70	70		13-02092-00		220.0 K .25 W 5.0 % CF	1		R71
71	71		13-02177-00		47.0 K .25 W 5.0 % CF	3		R9,R10,R74
72	72		13-20103-02		133.0 K .25 W 0.1 % RN55E-B 2	2		R78,R79
73	73		13-02391-00		20.0 K .25 W 5.0 % CF	1		R101
74	74		13-12926-00		324.0 K .25 W 1.0 % RN55D-F10	1		R87
75	75		13-02398-00		470.0 K .25 W 5.0 % CF	1		R28
76	76		13-02466-00		100.0 K .25 W 5.0 % CF	1		R27
77	77		13-02685-00		909.0 .25 W 1.0 % RN55D-F10	1		R53
78	78		13-03114-00		1.0 K .25 W 1.0 % RN55D-F10	1		R76
79	79		13-03178-00		620.0 .25 W 5.0 % CF	1		R48

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							AC INPUT/FAN DRIVE			K	PL	5418169-0-DBP	F

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						01		
						E2		
80	80		13-09412-00	18.20 K	.25 W 1.0 % RN55D-F10	1		R66
81	81		13-12931-00	6.20 K	.25 W 5.0 % CF	2		R62,R86
82	82		13-09420-00	8.25 K	.25 W 1.0 % RN55D-F10	1		R46
83	83		13-09595-00	1.0 M	.25 W 5.0 % CF	1		R34
84	84		13-28082-01	260.0	10.0 W 5.0% WW	2		R3,R4
85	85		13-10631-00	2.21 K	.25 W 1.0 % RN55D-F10	2		R17,R47
86	86		13-10876-00	.02	5.0 W 3.0 % WW	1		R19
87	87		13-11320-00	90.90 K	.25 W 1.0 % RN55D-F10	2		R45,R49
88	88		13-19471-18	200.0	2.0 W 5.0 % M.OXIDE	1		R23
89	89		13-12452-00	3.74 K	.25 W 1.0 % RN55D-F10	1		R52
90	90		13-12482-00	2.70	.25 W 5.0 % CF	1		R72
91	91		13-13152-00	60.40 K	.25 W 1.0 % RN55D-F10	1		R56
92	92		13-12932-00	36.0 K	.25 W 5.0 % CF	1		R26
93	93		13-13150-00	430.0	.25 W 5.0 % CF	2		R14,R31
94	94		13-03219-00	82.0 K	.25 W 5.0 % CF	1		R82
95	95		13-05355-00	7.0 K	.25 W 0.1 % RN55C-B 5	1		R80
96	96		13-14350-00	1.0	2.0 W10.0 % WW FUS	2		R1,R2
97	97		13-14350-01	.22	2.0 W 5.0 % WW FUS	1		R54
98	98		13-20602-17	5.10	2.0 W 5.0 % M.OXIDE	1		R25
99	99		13-14989-00	11.30 K	.25 W 1.0 % RN55D-F10	2		R60,R75
100	100		13-14350-05	5.1	2.0 W 5.0 % WW FUS	1		R84
101	101		13-17522-00	1.0	.25 W 5.0 % CF	1		R38
102	102		13-18150-09	3.57 K	.25 W 1.0 % RN55D-F10	1		R55
103	103		13-02388-00	2.0 K	.25 W 5.0 % CF	3		R59,R73,R95
104	104		13-19471-01	10.0	2.0 W 5.0 % M.OXIDE	1		R35
105	105		13-19471-35	4.70 K	2.0 W 5.0 % M.OXIDE	1		R22
106	106		13-22890-03		THERMISTOR PTC 8.0 K 30%	1		R29
107	107		15-09524-00		2N 3904 NPN 310MW SI 40 40 M	4		Q3,Q5-Q7
108	108				*** THIS ITEM IS NOT USED ***	-		
109	109		15-20265-01		BUV 48A NPN 150W 450V 15A	2		Q1,Q2
110	110		15-22319-01		FET 200V N-CHANNEL	1		Q4
111	111		16-27192-01		CHOKE,FILTER 160MH@6ADC 33KHZ,40	1		L1
112	112				*** THIS ITEM IS NOT USED ***	-		
113	113		16-26644-01		XFMR P=240-360V 33KHZ 24W	1		T5
114	114		16-17450-01		XFMR,BASE DRIVE 33KHZ	1		T2
115	115		16-21176-01		XFMR,CURRENT RATIO 200:1 33KHZ	1		T3
116	116		16-22459-02		INDUCTOR,COMMON-MODE,2MH,7.5A	1		T4
117	117		16-26638-01		XFMR P=200-360V 33KHZ 216W	1		T1
118	118		19-12108-B0		339 BURNED-IN VOLT CMPRT	2		E1,E7
119	119		19-16819-B0		3527A MODULATOR,REGULATING	1		E6
120	120		19-17908-B0		OP AMP DUAL LOW POWE	3		E2,E3,E8
121	121		19-22364-B1		OPTOCOUPLER HI ISOLATION 8KV 4PI	2		E4,E10
122	122		20-21063-03		HYBRID,INTERNAL LOW VOLTAGE MODU	1		Z1
123	123		21-17883-00		4011B NAND GATE,QUAD BUFFE	1		E5
124	124		21-22143-01		H4538B DUAL PREC MONOSTABLE	1		E9
125	125				*** THIS ITEM IS NOT USED ***	-		
126	126				*** THIS ITEM IS NOT USED ***	-		
127	127		12-17000-05		TERM,QUICK .110TAB 18-22AWG	3		
128	128		90-06557-00		NUT,HEX EXT TOOTH LCKWSHR 4-40	1		
129	129				*** THIS ITEM IS NOT USED ***	-		

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							AC INPUT/FAN DRIVE			K	PL	5418169-0-DBP	F

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						01	
						E2	
130	130				*** THIS ITEM IS NOT USED ***	-	
131	131		90-07926-01		TERM,RING #10STUD CRIMP 10-1	5	
132	132		90-09545-01		SCREW,SEMS PAN PHIL 8-	2	
133	133		90-03769-00		WASHER,RECTNGLR STEEL	1	
134	134		90-09798-00		SPACER,CLEAR HOLE RND CERAM .07	14	
135	135		90-10519-02		STANDOFF,SWAGE 6-32	6	
136	136		11-17373-00		LED ASSY GREEN	1	D41
137	137		13-00347-00		680.0 .50 W 5.0 % CF	3	R63,R65,R94
138	138		90-06011-01		SCREW,MACH PAN PHIL 4-	1	
139	139		90-09991-00		NUT,HEX EXT TOOTH LCKWSHR 6-32	2	
140	140		90-06022-01		SCREW,MACH PAN PHIL 6-	2	
141	141	SEE NOTE 1 & 2	91-07786-66		WIRE, 18AWG (19/30)IPVC 300V1	A/R	
142	142				*** THIS ITEM IS NOT USED ***	-	
143	143		13-13349-00		33.0 K .25 W 5.0 % CF	1	R51
144	144		10-13466-11		0.22 MFD 50V +80/-20% Z5U C	1	C36
145	145		13-00391-00		1.50 K .25 W 5.0 % CF	2	R83,R99
146	146		13-04865-00		1.0 K .25 W 0.1 % RN55E-B 2	1	R97
147	147		13-00316-00		470.0 .25 W 5.0 % CF	1	R24
148	148				*** THIS ITEM IS NOT USED ***	-	
149	149		90-09111-02		INSERT,THREAD PC BOARD	1	
150	150		90-06018-01		SCREW,MACH PAN PHIL 4-	1	
151	151		90-06632-00		WASHER,LOCK INTERNAL STEEL	1	
152	152				*** THIS ITEM IS NOT USED ***	-	
153	153		10-00052-00		0.068MFD 100V +/-10% MYLAR	1	C27
154	154		13-14187-00		6.19 K .25 W 1.0 % RN55D-F10	1	R106
155	155		10-01610-00		0.010MFD 50V +80/-20% Z5U C	1	C48
156	156		13-01317-00		10.0 .25 W 5.0 % CF	1	R107
157	157		13-13590-00		1.50 K .25 W 1.0 % RN55D-F10	2	R68,R70
158	158		13-00271-00		220.0 .25 W 5.0 % CF	1	R110
159	159		11-15272-00		RECT,ULTRA FAST PIV= 150 IO= 6.0	1	D31
160	160		36-27920-01		LABEL,KAPTON,BLANK	2	
161	161		36-27921-01		LABEL,OVER LAMINATE POLYIMIDE	2	
162	162	SEE NOTE #5	91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	
163	163		10-16546-00		0.22 MFD 600V +/-10% MET.	3	C10,C17,C18
164	164		13-19255-18		39.0 1.0 W 5.0 % M.OXIDE	1	R12
165	165		90-07928-00		TERM,RING #10STUD CRIMP 14-1	4	
166	166		91-07278-11		TUBING,TEFLON .042ID	A/R	
167	167		91-07254-00		TUBING,SHRINK .187ID EXP	A/R	
168	168		91-07940-55		WIRE 30AWG PTFE 200C @	A/R	
169	169		90-07880-00		TIE,CABLE BUNDL DIA 0-1.14"=101	1	
170	170		90-09617-00		TIE,CABLE BUNDL DIA 0-3 X 11"	1	
171	171		91-07817-00		TUBING,SHRINK 1.500ID EXP	A/R	

- 1 GEN: NOTE #1 USE APPROX. 67.5 INCHES/UNIT 3 WIRES/CONNECTION (2 SETS 5 IN. EA., 2 SETS 4.0 IN. EA., & 1 SET 4.5 IN. EA)
- 2 GEN: NOTE #2 USE APPROX. 10.5 INCHES/UNIT (3 AT 3.5 INCHES EA.)
- 3 GEN: NOTE #3 ASSEMBLY WIRES WITH TERMINATORS IN DIRECTION SHOWN ON UA.
- 4 GEN: NOTE #4 USE ITEM #'S 127, 131, & 141 WHEN ASSEMBLING ITEM 40.
- 5 GEN: NOTE #5 USE APPROX. 05 INCHES/UNIT

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							AC INPUT/FAN DRIVE			K	PL	5418169-0-DBP	F

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						01		
						F2		
30	30		11-10836-00		VZ= 12.0 5% 400 MW 1N759A	3		D35, D51, D52
31	31		11-05871-00		VZ= 5.15 1% 250 MW	2		D28, D29
32	32		11-09197-00		VZ= 5.6 5% 1 W 1N4734A	2		D2, D4
33	33		11-09517-00		PIV= 75 IO=150 MA - 4NS 1N914B	1		D38
34	34		11-12594-02		PIV= 600 IO= 3.00A	5		D5, D6, D14-D16
35	35		11-12595-01		PIV= 200 IO= 1.00A AXIAL	4		D25, D33, D34, D40
36	36		11-12595-02		PIV= 600 IO= 1.00A AXIAL	2		D7, D8
37	37		11-15465-01		RECT, ULTRA FAST PIV=150 IO= 2.0	3		D1, D3, D26
38	38		11-17555-01		RECT, ULTRA FAST PIV= 200 IO=16.0	1		D12
39	39		11-17721-02		TRANS. SUPP. 16V 5W	2		D39, D50
40	40		11-26520-01		SCR PIV= 600 IO=10.00A 30BRIDG	1		D10
41	41		90-10413-04		RIVET, BLIND, BINDER .125DX .225	10		
42	42		12-21027-02		MATE-N-LOK 02PIN(1X02).250CC HDR	1		J6
43	43		12-21027-03		MATE-N-LOK 04PIN(1X02).250CC HDR	1		J2
44	44		12-21027-04		MATE-N-LOK 08PIN(1X08).250CC HDR	1		J1
45	45		12-12531-01		HEAT SINK, TQ-3 2.187X01.3	1		HS2
46	46		12-18243-02		PCB HEADER 02PIN(1X02).100CC STR	1		J8
47	47		12-18243-04		PCB HEADER 20PIN(1X20).100CC STR	1		J7
48	48		12-27850-01		HEAT SINK	2		HS3, HS4
49	49		12-21027-01		MATE-N-LOK 03PIN(1X03).250CC ASS	2		J3, J4
50	50		74-30840-01		GUIDE, HYBRID	1		
51	51		12-17194-00		FUSE CLIP 5AG TYPE	6		
52	52		12-28198-02		HEAT SINK	1		HS5
53	53		12-22573-01		FUSE 5AG 20 A 600V NORM-BLOW	3		F1-F3
54	54		13-22504-01		VARISTOR 320VAC VOLT TRANS SUP	3		R88-R90
55	55		10-29099-01		330 MFD 400V +/-20% 105	2		C9, C44
56	56		13-19471-02		15.0 2.0 W 5.0 % M.OXIDE	3		R15, R16, R18
57	57		13-26926-01		THERMISTOR PTC 50 20%	3		R61, R96, R102
58	58		13-27196-02		150.0 20.0 W 5.0 % WW	1		R8
59	59		13-00202-00		47.0 .25 W 5.0 % CF	1		R7
60	60		13-00229-00		100.0 .25 W 5.0 % CF	6		R11, R13, R30, R91-R93
61	61		13-12546-00		16.50 K .25 W 1.0 % RN55D-F10	1		R58
62	62		13-00365-00		1.0 K .25 W 5.0 % CF	6		R44, R57, R64, R100, R108, R109
63	63		13-05114-00		3.48 K .25 W 1.0 % RN55D-F10	2		R67, R69
64	64		13-00447-00		4.70 K .25 W 5.0 % CF	3		R37, R39, R50
65	65		13-00479-00		10.0 K .25 W 5.0 % CF	8		R32, R33, R36, R40-R43, R85
66	66		13-00496-00		15.0 K .25 W 5.0 % CF	1		R21
67	67		13-01401-00		750.0 .25 W 5.0 % CF	1		R5
68	68		13-01808-00		22.0 K .25 W 5.0 % CF	1		R20
69	69		13-18150-70		34.0 .25 W 1.0 % RN55D-F10	1		R6
70	70		13-02092-00		220.0 K .25 W 5.0 % CF	1		R71
71	71		13-02177-00		47.0 K .25 W 5.0 % CF	3		R9, R10, R74
72	72		13-20103-02		133.0 K .25 W 0.1 % RN55E-B 2	1		R78
73	73		13-05431-00		10.0 K .25 W 0.1 % RN55E-B 2	1		R101
74	74		13-12926-00		324.0 K .25 W 1.0 % RN55D-F10	1		R87
75	75		13-02398-00		470.0 K .25 W 5.0 % CF	1		R28
76	76		13-02466-00		100.0 K .25 W 5.0 % CF	1		R27
77	77		13-02685-00		909.0 .25 W 1.0 % RN55D-F10	1		R53
78	78		13-03114-00		1.0 K .25 W 1.0 % RN55D-F10	1		R76
79	79		13-03178-00		620.0 .25 W 5.0 % CF	1		R48

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							AC INPUT/FAN DRIVE			K	PL	5418169-0-DBP1	A

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						01 F2	
80	80		13-09412-00	18.20 K	.25 W 1.0 % RN55D-F10	1	R66
81	81		13-12931-00	6.20 K	.25 W 5.0 % CF	2	R62,R86
82	82		13-09420-00	8.25 K	.25 W 1.0 % RN55D-F10	1	R46
83	83		13-09595-00	1.0 M	.25 W 5.0 % CF	1	R34
84	84		13-28082-01	260.0	10.0 W 5.0% WW	2	R3,R4
85	85		13-10631-00	2.21 K	.25 W 1.0 % RN55D-F10	2	R17,R47
86	86		13-10876-00	.02	5.0 W 3.0 % WW	1	R19
87	87		13-11320-00	90.90 K	.25 W 1.0 % RN55D-F10	2	R45,R49
88	88		13-29654-01	200.0	20.0 W 5.0 % MO	1	R23
89	89		13-12452-00	3.74 K	.25 W 1.0 % RN55D-F10	1	R52
90	90		13-12482-00	2.70	.25 W 5.0 % CF	1	R72
91	91		13-13152-00	60.40 K	.25 W 1.0 % RN55D-F10	1	R56
92	92		13-12932-00	36.0 K	.25 W 5.0 % CF	1	R26
93	93		13-13150-00	430.0	.25 W 5.0 % CF	2	R14,R31
94	94		13-05514-00	32.0 K	.25 W 0.1 % RN55E-B 2	1	R82
95	95		13-13077-00	12.80 K	.25 W 0.1 % RN55E-B 2	1	R80
96	96		13-14350-00	1.0	2.0 W 10.0 % WW FUS	2	R1,R2
97	97		13-14350-01	.22	2.0 W 5.0 % WW FUS	1	R54
98	98		13-29653-01	5.1	2.0 W 5.0 % WW	1	R25
99	99		13-14989-00	11.30 K	.25 W 1.0 % RN55D-F10	2	R60,R75
100	100		13-14350-05	5.1	2.0 W 5.0 % WW FUS	1	R84
101	101		13-17522-00	1.0	.25 W 5.0 % CF	1	R38
102	102		13-18150-09	3.57 K	.25 W 1.0 % RN55D-F10	1	R55
103	103		13-02388-00	2.0 K	.25 W 5.0 % CF	3	R59,R73,R95
104	104		13-04693-00	562.0	.25 W 1.0 % RN55D-F10	1	R35
105	105		13-19471-35	4.70 K	2.0 W 5.0 % M.OXIDE	1	R22
106	106		13-22890-03		THERMISTOR PTC 8.0 K 30%	1	R29
107	107		15-09524-00		2N 3904 NPN 310MW SI 40 40 M	4	Q3,Q5-Q7
108	108				*** THIS ITEM IS NOT USED ***	-	
109	109		15-20265-01		BUV 48A NPN 150W 450V 15A	2	Q1,Q2
110	110		15-22319-01		FET 200V N-CHANNEL	1	Q4
111	111		16-27192-01		CHOKE,FILTER 160MH@6ADC 33KHZ,40	1	L1
112	112		15-22424-01		FET 60V .8A N-CHNNL 4	3	Q8-Q10
113	113		16-26644-01		XFMR P=240-360V 33KHZ 24W	1	T5
114	114		16-17450-01		XFMR,BASE DRIVE 33KHZ	1	T2
115	115		16-21176-01		XFMR,CURRENT RATIO 200:1 33KHZ	1	T3
116	116		16-22459-02		INDUCTOR,COMMON-MODE,2MH,7.5A	1	T4
117	117		16-26638-01		XFMR P=200-360V 33KHZ 216W	1	T1
118	118		19-12108-B0		339 BURNED-IN VOLT CMPRT	2	E1,E7
119	119		19-16819-B0		3527A MODULATOR,REGULATING	1	E6
120	120		19-17908-B0		OP AMP DUAL LOW POWE	3	E2,E3,E8
121	121		19-22364-B1		OPTOCOUPLER HI ISOLATION 8KV 4PI	2	E4,E10
122	122		20-21063-03		HYBRID,INTERNAL LOW VOLTAGE MODU	1	Z1
123	123		21-17883-00		4011B NAND GATE,QUAD BUFFE	1	E5
124	124	SEE NOTE 1	21-22143-01		H4538B DUAL PREC MONOSTABLE	1	E9
125	125		19-16981-B0		581 PREC. VOLTAGE REF.,1	1	E11
126	126				*** THIS ITEM IS NOT USED ***	-	
127	127				*** THIS ITEM IS NOT USED ***	-	
128	128		90-06557-00		NUT,HEX EXT TOOTH LCKWSHR 4-40	1	
129	129		13-20937-01	2.0 K	.25 W 0.1 % RN55E-B 2	1	R81

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							AC INPUT/FAN DRIVE			K	PL	5418169-0-DBP1	A

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						01 F2	
130	130		13-17524-00		6.34 K .25 W 0.1 % RN55E-B 2	1	R111
131	131				*** THIS ITEM IS NOT USED ***	-	
132	132		90-09545-01		SCREW, SEMS PAN PHIL	8-	
133	133		90-09769-00		WASHER, RECTNGLR STEEL	1	
134	134		90-09798-00		SPACER, CLEAR HOLE RND CERAM .07	8	
135	135		90-10519-02		STANDOFF, SWAGE	6-32	
136	136		11-17373-00		LED ASSY GREEN	1	D41
137	137		13-13469-00		240.0 .25 W 5.0 % CF	3	R63, R65, R94
138	138		90-06011-01		SCREW, MACH PAN PHIL	4-	
139	139		90-09991-00		NUT, HEX EXT TOOTH LCKWSHR	6-32	
140	140		90-06022-01		SCREW, MACH PAN PHIL	6-	
141	141				*** THIS ITEM IS NOT USED ***	-	
142	142		13-02396-00		150.0 K .25 W 5.0 % CF	3	R77, R98, R112
143	143		13-13349-00		33.0 K .25 W 5.0 % CF	1	R51
144	144		10-13466-11		0.22 MFD 50V +80/-20% Z5U C	1	C36
145	145		13-00391-00		1.50 K .25 W 5.0 % CF	2	R83, R99
146	146		13-23605-01		1.50 K .25 W 0.1 % RN55E-B 2	1	R97
147	147				*** THIS ITEM IS NOT USED ***	-	
148	148		13-20715-01		470.0 K .50 W 5.0 % CF	3	R103-R105
149	149		90-09111-02		INSERT, THREAD PC BOARD	1	
150	150		90-06018-01		SCREW, MACH PAN PHIL	4-	
151	151		90-06632-00		WASHER, LOCK INTERNAL STEEL	1	
152	152		13-09296-00		113.0 K .25 W 0.1 % RN55E-B 2	1	R79
153	153		10-00052-00		0.068MFD 100V +/-10% MYLAR	1	C27
154	154		13-14187-00		6.19 K .25 W 1.0 % RN55D-F10	1	R106
155	155		10-01610-00		0.010MFD 50V +80/-20% Z5U C	1	C48
156	156		13-01317-00		10.0 .25 W 5.0 % CF	1	R107
157	157		13-13590-00		1.50 K .25 W 1.0 % RN55D-F10	2	R68, R70
158	158		13-00271-00		220.0 .25 W 5.0 % CF	1	R110
159	159		11-15272-00		RECT, ULTRA FAST PIV= 150 IO= 6.0	1	D31
160	160		36-27920-01		LABEL, KAPTON, BLANK	A/R	
161	161		36-27921-01		LABEL, OVER LAMINATE POLYIMIDE	A/R	
162	162		36-27922-01		LABEL, DRY INK FOIL, BLACK	A/R	
163	163		10-16546-00		0.22 MFD 600V +/-10% MET.	3	C10, C17, C18
164	164		13-19255-18		39.0 1.0 W 5.0 % M.OXIDE	1	R12
165	165		90-09798-01		SPACER, CLEAR HOLE RND CERAM .07	6	
166	166				*** THIS ITEM IS NOT USED ***	-	
167	167				*** THIS ITEM IS NOT USED ***	-	
168	168		91-07940-55		WIRE 30AWG PTFE 200C @	A/R	
169	169		90-07880-00		TIE, CABLE BUNDL DIA 0-1.14"=101	1	
170	170		90-09617-00		TIE, CABLE BUNDL DIA 0-3 X 11"	1	
171	171		91-07817-00		TUBING, SHRINK 1.500ID EXP	A/R	

1 GEN: NOTE #1 ITEM 124 CAN BE REPLACED WITH BURNED IN VERSIONS IF PROCESS REQUIRES.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							AC INPUT/FAN DRIVE		K	PL	5418169-0-DBP1	A

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS
E-UA-5417007-0-0	3	54-17007-01	H7206 LOGIC BOARD	A2 B2 C2 D2
C-CS-5417007-0-1	2		H7206 LOGIC BOARD	A B C D
K-CS-5417007-0-DBX	-		H7206 LOGIC BOARD	A B C D
K-PL-5417007-0-DBP	2		H7206 LOGIC BOARD	A B C D
K-PC-5417007-0-DBA	-		P.C. DESIGN DATA BASE	A A B B
K-DD-5017006-0-0	1	50-17006-01	ETCHED CIRCUIT BOARD DRAWING DIRECTORY	C1 C1 D1 D1 A A B B

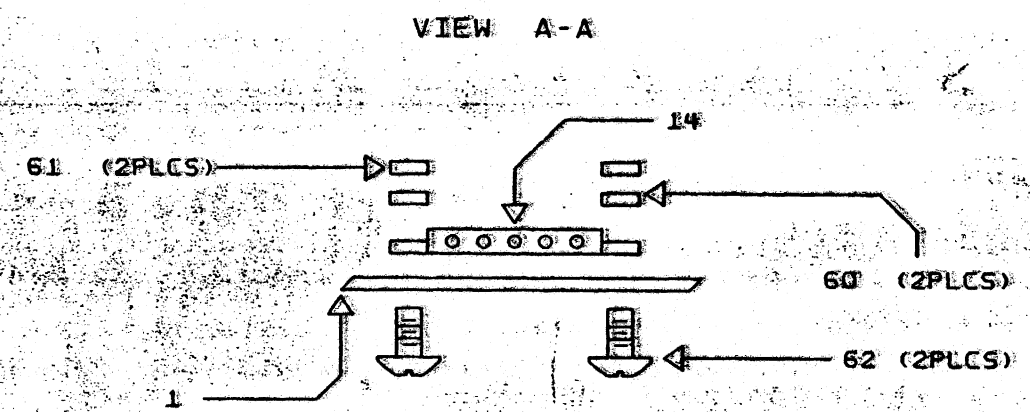
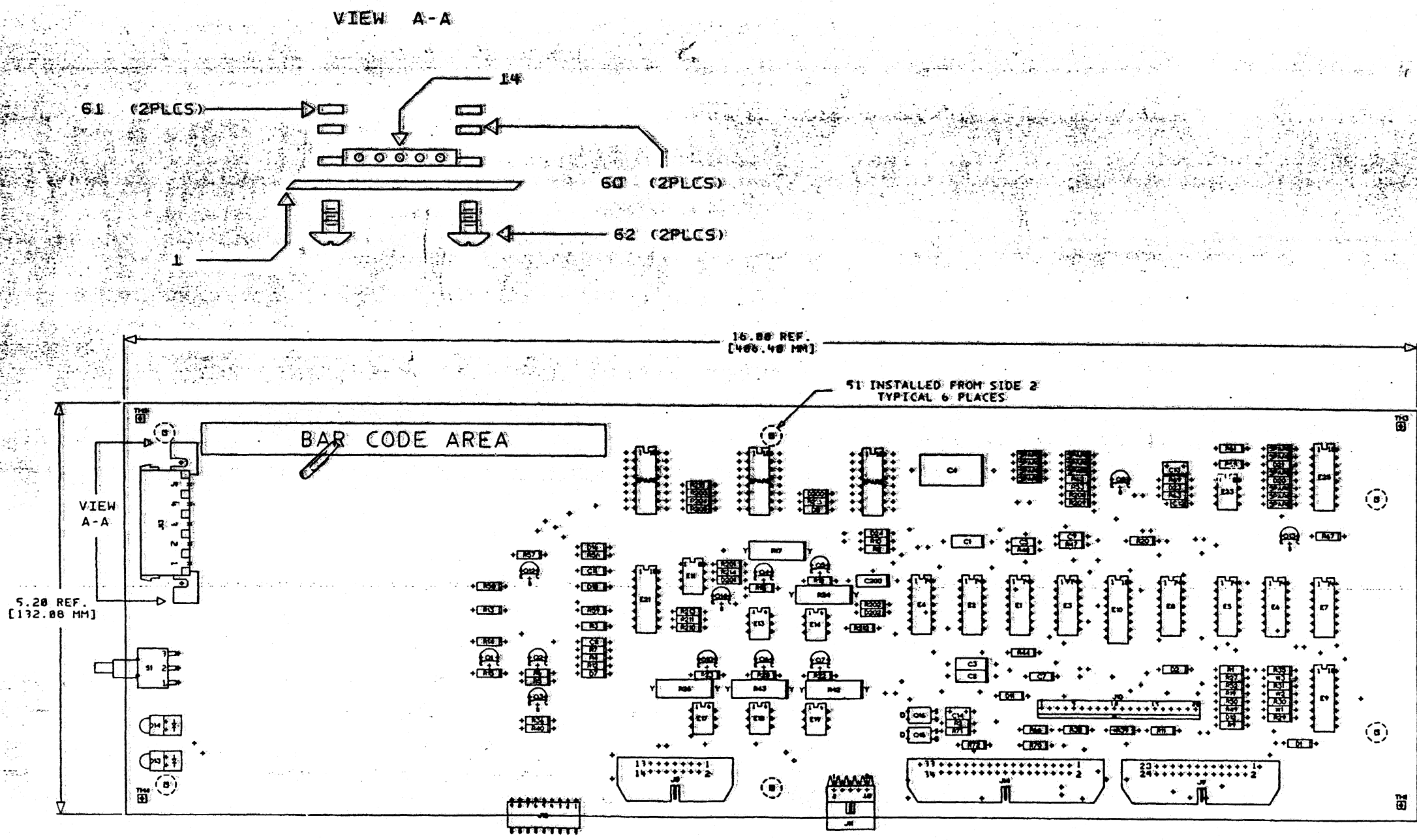
NOTES:

REV	A	B	C	D
R E V				
R E V I S I O N	E I N I T I O N	L T N O 1	L T N O 2	L T N O 3
	D A T E	J U L 1 8 7	D E C 8 7	M A R 8 8
				A U G 8 8

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DRN: S. BOSWORTH	DATE: 16-DEC-87	d i g i t a l	
CHK'D: C. LIVIERATOS	DATE: 18-JUN-87	TITLE H7206 LOGIC BOARD	
DES.ENG.: D. CALDERAN	DATE: 18-JUN-87	SHEET 1 OF 1	EDIT: 8
RESP.ENG.: D. CALDERAN	DATE: 18-JUN-87	DOCUMENT NUMBER	
		DD FILENAME: 5417007D.DDF	
MFG.ENG.: J. TUCKER	DATE: 18-JUN-87	SIZE K	CODE DD
		NUMBER 5417007-0-0	REV D

A B C D E F G H J

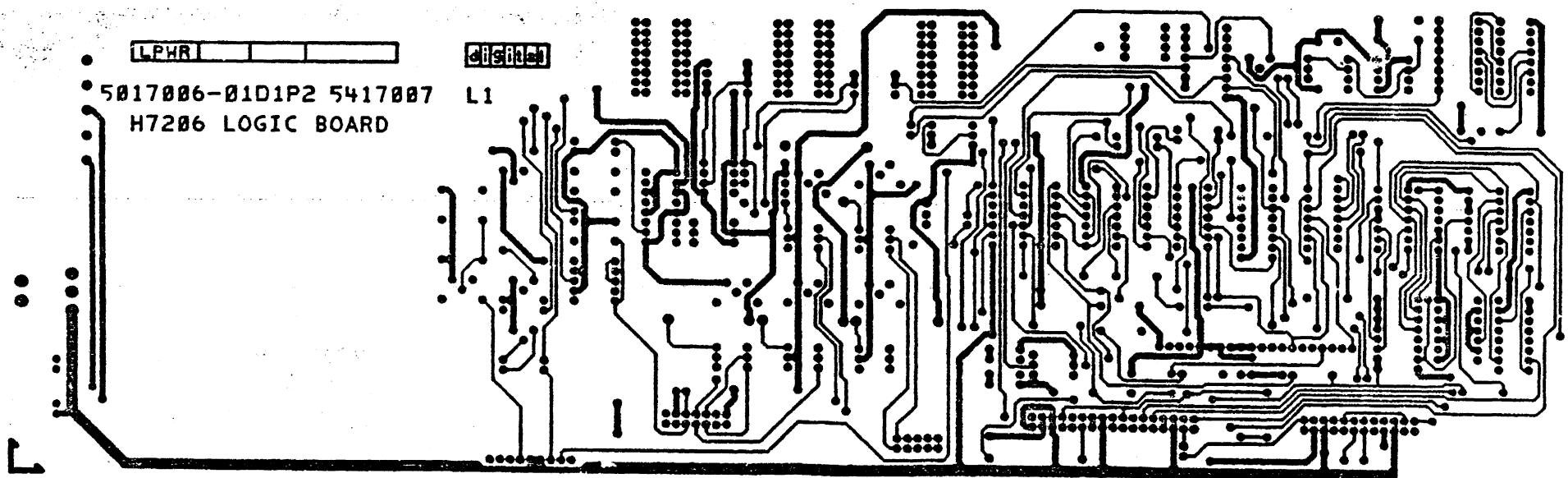


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DATE	DESIGNED BY	DESIGNED	CHANGE NO.	DATE	REV.
P. LINDOR	D. CALDERAN	441007	1	5-88	C
S. BOISHOR	D. CALDERAN	441007	9-88	D	
ESTIMATOR: DATE: DESIGNED BY: DATE: CHECKED BY: DATE: DRAWN BY: DATE: FOR APPROVAL: DATE:					
APPROVED BY: DATE:					
TITLE: 47206 LOGIC BOARD					
PART NO. 441007-0-0					
U.S. GOVERNMENT PRINTING OFFICE: 1975 O-217-000					

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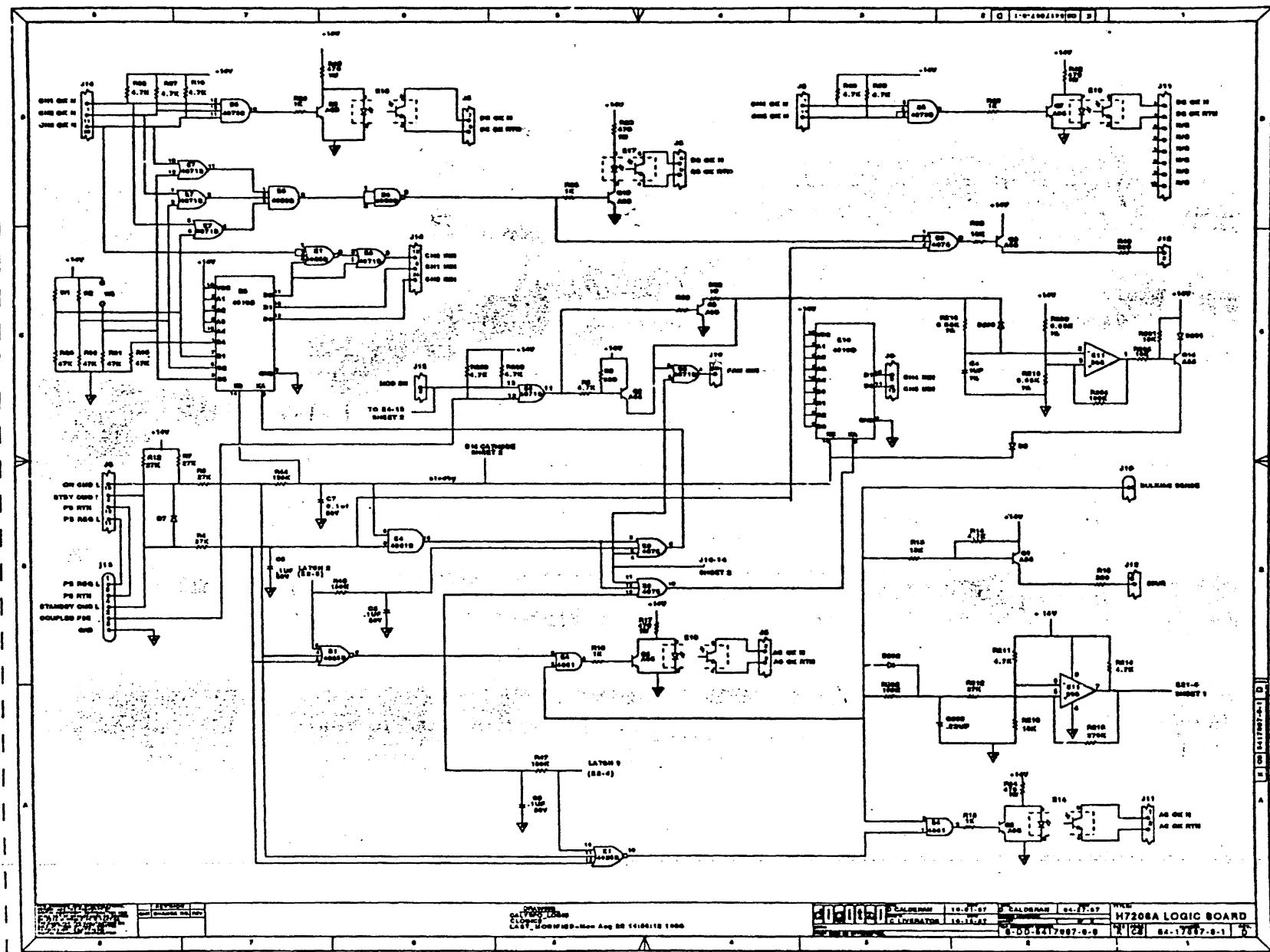
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TITLE
H7206 LOGIC BOARD

DOCUMENT NUMBER		REV.
5417007-0-0		1
SCALE 21		SHEET 2 OF 3

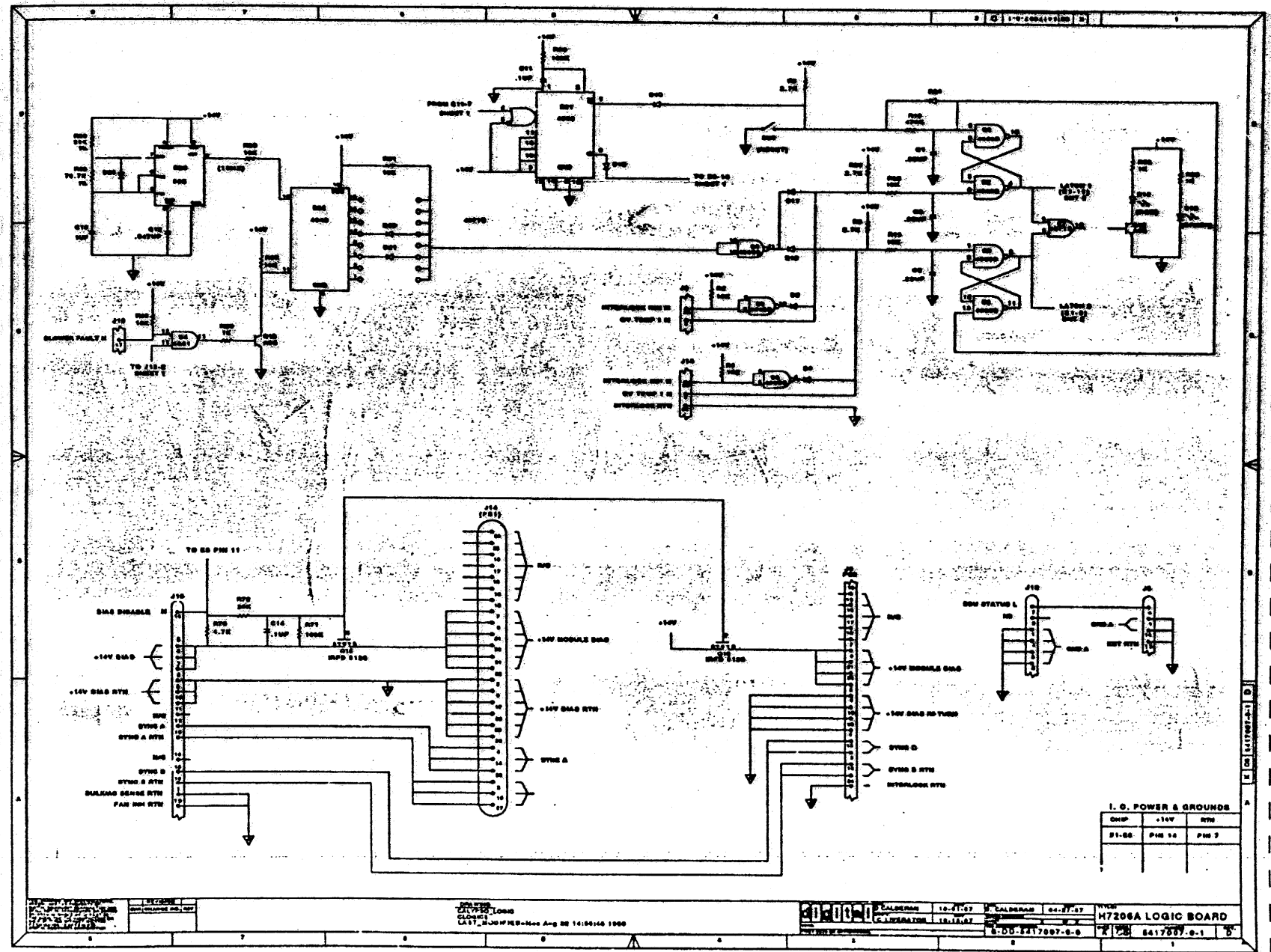
5417007-0-0



H7208A LOGIC BOARD
 10-17-67
 64-17887-8-1

10-17-67
 64-17887-8-1

H7208A LOGIC BOARD
 10-17-67
 64-17887-8-1



I. O. POWER & GROUNDS		
COMP	+14V	RTN
21-26	PIN 14	PIN 7

CALDERMAN 10-27-57
 CALDERMAN 04-27-57
 H7206A LOGIC BOARD
 S-00-2217007-0-0
 6417007-0-1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						01		
						D2		
1	1	D-MD-5017006-0-0	50-17006-01		CIRCUIT DRILL AND ETCH	1		
2	2		10-12784-00		0.047MFD 50V +80/-20% Z5U C	1		C12
3	3				*** THIS ITEM IS NOT USED ***	-		
4	4		10-13466-11		0.22 MFD 50V +80/-20% Z5U C	4		C1-C3,C200
5	5		10-13466-22		0.10 MFD 50V +80/-20% Z5U C	6		C5,C7-C9,C11,C14
6	6				*** THIS ITEM IS NOT USED ***	-		
7	7		11-05275-00		PIV= 60 IO=300 MA -15NS	15		D1,D2,D7,D8,D11,D12,D16,D18, CONT D20,D21,D23,D24,D200-D202
8	8		11-17373-00		LED ASSY GREEN	1		D13
9	9		11-17373-01		LED ASSY RED	1		D14
10	10		12-16112-00		PCB,HEADER 10POS(2X05).100CC 90D	1		J11
11	11		12-26921-03		PCB HEADER 14POS(2X07).100CC 90D	1		J5
12	12		12-16523-00		SW,PB 1PDT NO MOM-NC 1A	1		S1
13	13		12-18243-04		PCB HEADER 20PIN(1X20).100CC STR	1		J10
14	14		12-21027-05		MATE-N-LOK 05PIN(1X05).250CC HDR	1		J13
15	15		12-26445-04		PCB HEADER 09PIN(1X09).100CC 90D	1		J12
16	16		12-26921-02		PCB HEADER 34PIN(2X17).100CC 90D	1		J14
17	17		13-00271-00		220.0 .25 W 5.0 % CF	2		R15,R40
18	18		13-19470-26		470.0 1.0 W 5.0 % M.OXIDE	5		R17,R24,R26,R42,R43
19	19		13-00365-00		1.0 K .25 W 5.0 % CF	8		R16,R18,R20,R22,R23,R28,R58,R59
20	20		13-00426-00		2.70 K .25 W 5.0 % CF	3		R8,R9,R39
21	21		13-00447-00		4.70 K .25 W 5.0 % CF	13		R5,R14,R19,R27,R49,R50,R52,R53, CONT R70,R208,R209,R211,R214
22	22		13-00479-00		10.0 K .25 W 5.0 % CF	12		R1,R2,R11,R38,R57,R61,R63,R66, CONT R67,R201,R205,R210
23	23		13-00496-00		15.0 K .25 W 5.0 % CF	2		R13,R36
24	24		13-01775-00		820.0 .25 W 5.0 % CF	1		R6
25	25				*** THIS ITEM IS NOT USED ***	-		
26	26		13-02177-00		47.0 K .25 W 5.0 % CF	4		R29-R31,R35
27	27		13-02396-00		150.0 K .25 W 5.0 % CF	2		R47,R48

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A		DRN: S. BOSWORTH		DIGITAL				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 31-MAR-88		CHK'D: C. LIVIERATOS		TITLE PARTS LIST				
DC	LTN02	C	[A]	01	[M]	DATE: 13-AUG-86		DATE: 13-AUG-86		H7206 LOGIC BOARD			
DC	5417007-LTN03	D	[B]		[N]	DES.ENG: D. CALDERAN		DATE: 13-AUG-86		DOCUMENT NUMBER			
			[C]		[P]	RESP.ENG.: D. CALDERAN		DATE: 13-AUG-86		SIZE	CODE	NUMBER	REV
			[D]		[Q]	DATE: 13-AUG-86		K	PL	5417007-0-DBP	D		
			[E]		[R]	MFG.ENG: J. TUCKER		RELEASE DATE: 07-SEP-88		RELEASE STATUS: RELEASED			
			[F]		[S]	DATE: 09-JUL-87							
			[H]		[T]								
			[J]		[V]								
			[K]		[W]								
			[L]		[Y]								
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		EDIT #				
			5417007		D-UA-5417007-0-0		K-DD-5417007-0-0		3				
			FILE NAME: 17007DECO.PLS										

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ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
28	28	13-02398-00	470.0 K	.25 W 5.0 % CF	1		R10
29	29	13-02466-00	100.0 K	.25 W 5.0 % CF	4		R56, R71, R202, R204
30	30	13-05346-00	27.0 K	.25 W 5.0 % CF	5		R3, R4, R7, R12, R212
31	31	13-05515-00	64.0 K	.25 W 0.1 % RN55E-B 2	1		R68
32	32			*** THIS ITEM IS NOT USED ***	-		
33	33	13-14120-00	78.70 K	.25 W 1.0 % RN55D-F10	1		R69
34	34	15-10705-00	XA 05	NPN 500MW SI 60 50 P	8		Q4-Q8, Q10, Q12, Q13
35	35	15-10706-00	XA 55	PNP 500MW SI 60 50 P	4		Q1-Q3, Q14
36	36	19-11944-00		555CN TIMER, FUNCT. BLOCK	1		E23
37	37			*** THIS ITEM IS NOT USED ***	-		
38	38			*** THIS ITEM IS NOT USED ***	-		
39	39	21-13612-00		4019B AND-OR SELECT GATE-Q	2		E9, E10
40	40			*** THIS ITEM IS NOT USED ***	-		
41	41	21-13615-00		4025UBNOR GATE-TRIPLE 3IN	1		E1
42	42	21-13635-00		4071B OR GATE-QUAD 2IN CMO	2		E7, E8
43	43	21-13637-00		4073B AND GATE-TRIPLE 3IN	1		E5
44	44	21-13638-00		4075B OR GATE-TRIPLE 3IN C	1		E3
45	45	21-13642-00		4081B AND GATE-QUAD 2IN CM	1		E4
46	46	21-13644-00		4093B NAND GATE-QUAD 2IN C	2		E2, E6
47	47	21-14462-00		4040B COUNTER/DIVIDER, BINA	1		E25
48	48	21-22143-01		H4538B DUAL PREC MONOSTABLE	1		E21
49	49	10-10274-02		1.0 MFD 50V +/-20% Z5U C	1		C13
50	50	90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	2		W1, W2
51	51	90-10519-02		STANDOFF, SWAGE 6-32	6		
52	52			*** THIS ITEM IS NOT USED ***	-		
53	53			*** THIS ITEM IS NOT USED ***	-		
54	54	13-02391-00	20.0 K	.25 W 5.0 % CF	1		R72
55	55	15-24009-02		FET 100V 1.0W .60HM P-	2		Q15, Q16
56	56	12-26921-01		PCB HEADER 24POS(2X12).100CC 90D	1		J9
57	57			*** THIS ITEM IS NOT USED ***	-		
58	58	36-27920-01		LABEL, KAPTON, BLANK	A/R		
59	59	36-27921-01		LABEL, OVER LAMINATE POLYIMIDE	A/R		
60	60	90-06707-00		WASHER, FLAT NYLON	2		
61	61	90-07883-00		NUT, HEX 6-32X .307AF NYLO	2		
62	62	90-08212-00		SCREW, NYLN PAN SLOT 6-	2		
63	63	19-17699-B0		OPTO ISOLATOR, BURNED-IN, HIGH ISO	5		E13, E14, E17-E19
64	64	19-14156-B0		LM 393 BURNED-IN VOLT COMPA	1		E11
65	65	13-01310-00	270.0 K	.25 W 5.0 % CF	1		R213
66	66	13-00539-00	120.0 K	.25 W 5.0 % CF	1		R44
67	67	13-14988-00	6.65 K	.25 W 1.0 % RN55D-F10	3		R200, R215, R216
68	68	13-01317-00	10.0	.25 W 5.0 % CF	1		R62
69	69	10-16138-00		1.0 MFD 50V +/- 1% M.POL	1		C4
70	70			*** THIS ITEM IS NOT USED ***	-		
71	71	36-27922-01		LABEL, DRY INK FOIL, BLACK	A/R		

1 GEN: GEN NOTE 1: ITEM 36, 41, 42, & 48 CAN BE REPLACED WITH BURNED IN VERSIONS IF THE PROCESS REQUIRES.

D	I	G	I	T	A	L	TITLE	SECTION	OF	SIZE	CODE	DOCUMENT NUMBER	REV
							H7206 LOGIC BOARD	A	OF	K	PL	5417007-0-DBP	D

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	A
1	E-IA-7023953-0-DBU	70-23953-01	B	WELDMENT, H7206	1
2	E-IA-7434049-0-DBU	74-34049-01	B	COVER, H7206	1
3		12-24701-06		FAN,TUBE AXIAL 3.64" 45CFM 24VDC	1
4		54-18169-01	E	AC INPUT/FAN DRIVE	1
5		54-17007-01	D	H7206-A LOGIC BD,AC INPUT BOX	1
6	C-MD-7434053-0-DBU	74-34053-01		SHIELD,PC BOARD	2
7		90-09701-00		SCREW,SEMS PAN PHIL 6-32	18
8		17-01445-01		WIRE HARN ASSY 20COND 22AWG IDC-ID	1
9		36-27920-01		LABEL,KAPTON,BLANK	.333
10		36-27921-01		LABEL,OVER LAMINATE POLYIMIDE	.333
11		36-27922-01		LABEL,DRY INK FOIL,BLACK	.333
12		36-17674-46		LABEL,SERIAL/POWER,UNIV,USA,UR/CSA	1

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A		DRN: K. GAGNON		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE	CHK'D:	TITLE	NUMBER	REV	
---	INITIAL	A	[A] A	27-APR-87	J. KUSHIGHAN	PARTS LIST			
CM	H7206-LTN01	B	[B]	21-MAY-87		POWER AND LOGIC ASSY			
CM	H7206-LTN02	C	[C]			H7206			
CM	H7206-LTN03	D	[D]	15-JUN-87	F. FERREIRA				
CM	H7206-LTN04	E	[E]			DOCUMENT NUMBER			
CM	H7206-LTN05	F	[F]		A. SELLING	SIZE	CODE		
CM	H7206-LTN06	H	[H]	15-JUN-87		K	PL	H7206-0-DBP	J
CM	H7206-LTN07	J	[J]						
					MFG.ENG: R. LACHANCE	RELEASE DATE:		15-NOV-88	
					DATE: 15-JUN-87	RELEASE STATUS:		RELEASED	
					BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
					H7206	E-UA-H7206-0-DBU	K-DD-H7206-0-0	H7206J.PLS	2

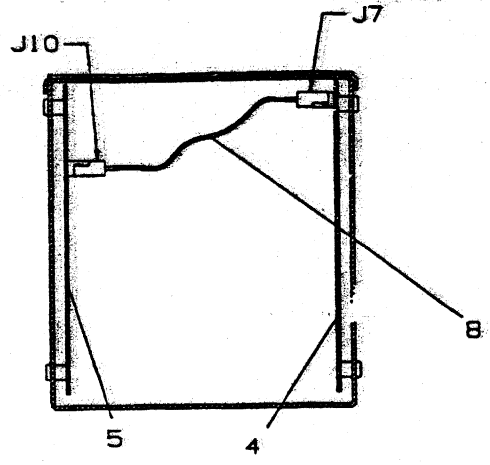
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SCALE: 0.312

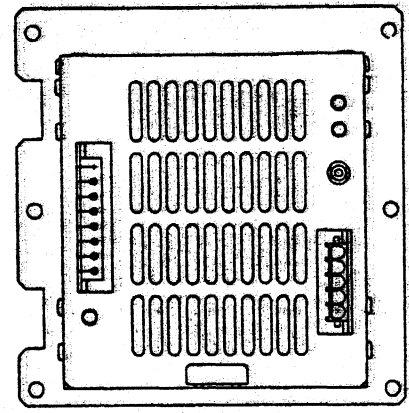
LEGEND		
PART NO	REV	VARIATION
H7208-A	J6	AS SHOWN

NOTES:

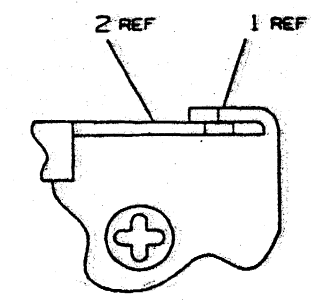
- IDENTIFICATION: MARK PART WITH THE FOLLOWING INFORMATION, APPROXIMATE LOCATION SHOWN PER DEC STD 178.
(A) PART NUMBER
(B) REV LEVEL
(C) VENDOR IDENTIFICATION
- PART SHALL CONFORM TO DEC STD 187.
- TORQUE ITEM 7 SCREWS TO 9 ± 1.8 IN-LBS



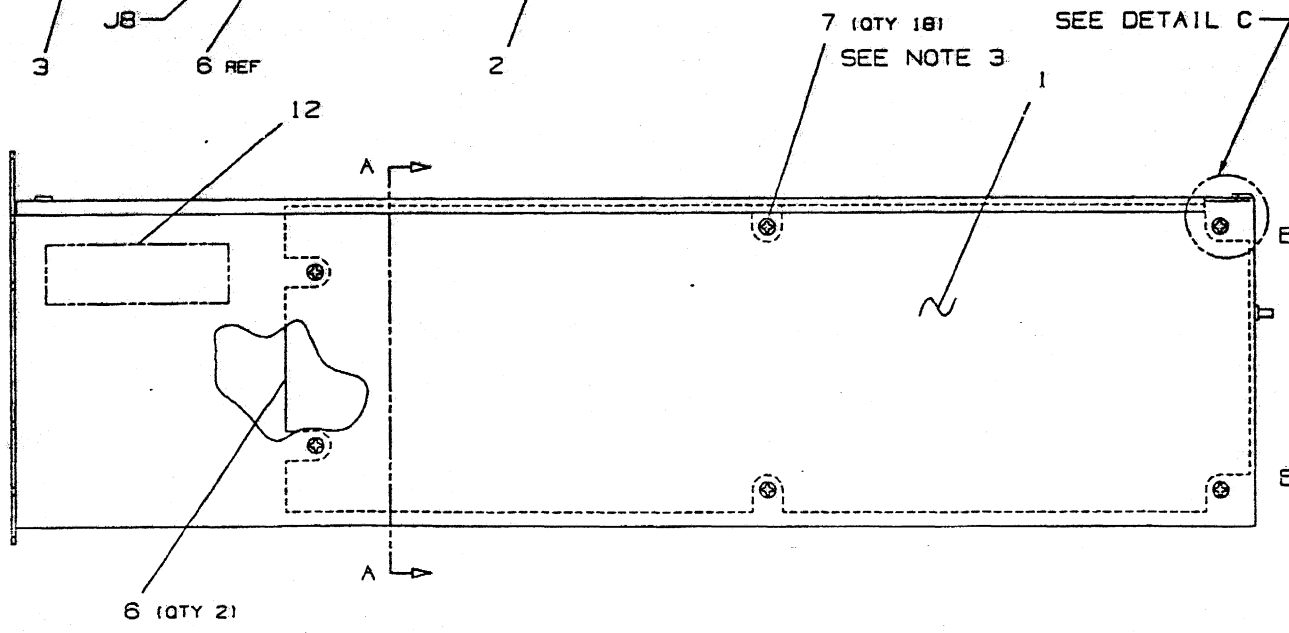
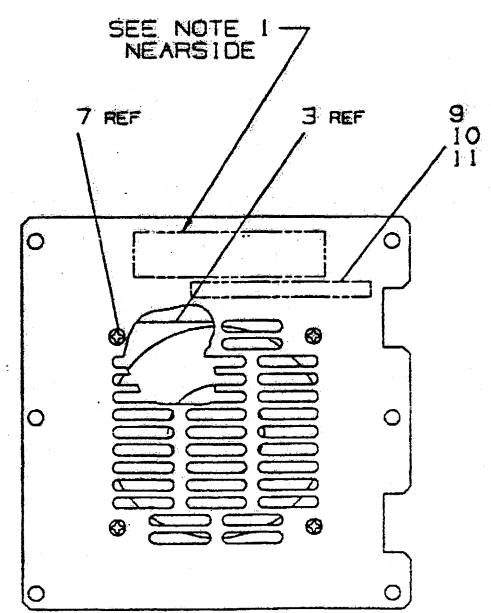
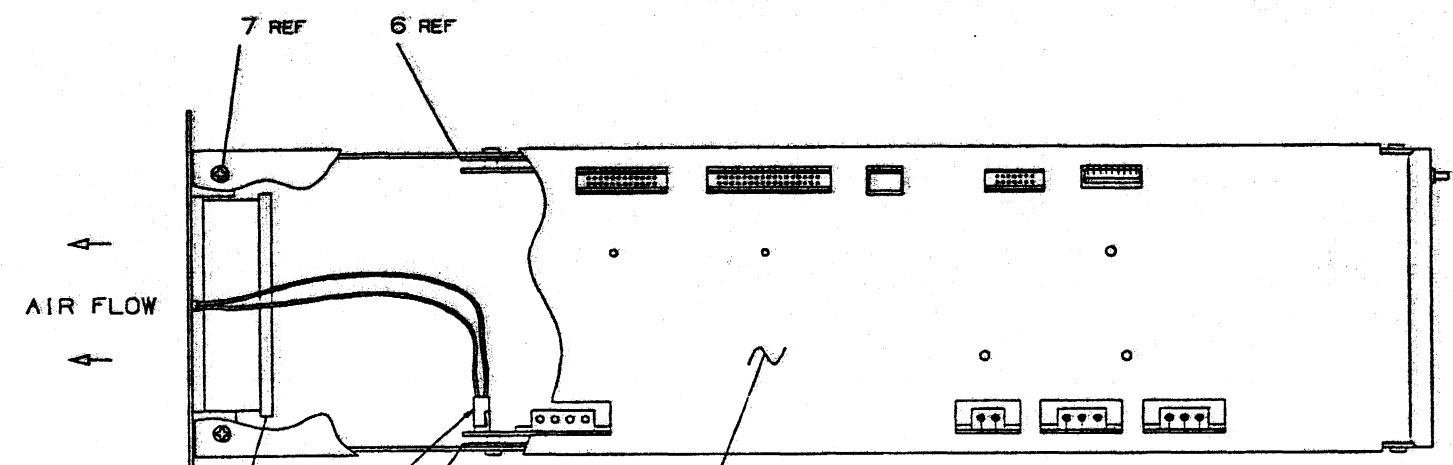
SECTION A-A



VIEW B-B



DETAIL C
SCALE: 4/1
FLANGE ON COVER TUCKS
UNDER FLANGE ON CHASSIS



LAYER 1: WORK LAYER
LAYER 2: FORMAT LAYER
CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-H7208-0-DBP
PLOT AT 1.00

REV	DATE	BY	CHKD	DESCRIPTION
A	11 MAY 68	C. WAGNER		INITIAL
B	11 MAY 68	C. WAGNER		REVISED
C	11 MAY 68	C. WAGNER		REVISED
D	11 MAY 68	C. WAGNER		REVISED
E	11 MAY 68	C. WAGNER		REVISED
F	11 MAY 68	C. WAGNER		REVISED
G	11 MAY 68	C. WAGNER		REVISED
H	11 MAY 68	C. WAGNER		REVISED
I	11 MAY 68	C. WAGNER		REVISED
J	11 MAY 68	C. WAGNER		REVISED

DESCRIPTION	DRAWING NO.	PART NO.	REV
POWER AND LOGIC ASSY H7208	E-AD-7024900-0-DBU	H7208-0-DBU	J

INCHES	MILLIMETERS	DIAGONALS	ANGLES	SPACES	PLACES	STRAIGHT	CURVED
±0.005	±0.025	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005

DATE	BY	CHKD	DESCRIPTION
27 APR 67	K. GAGNON		DESIGN
21 MAY 67	J. KUSHIGAN		DESIGN
23 OCT 67	F. FERRIERA		DESIGN
29 OCT 67	D. CALDERAN		DESIGN
29 OCT 67	J. TUCKER		DESIGN

LTN

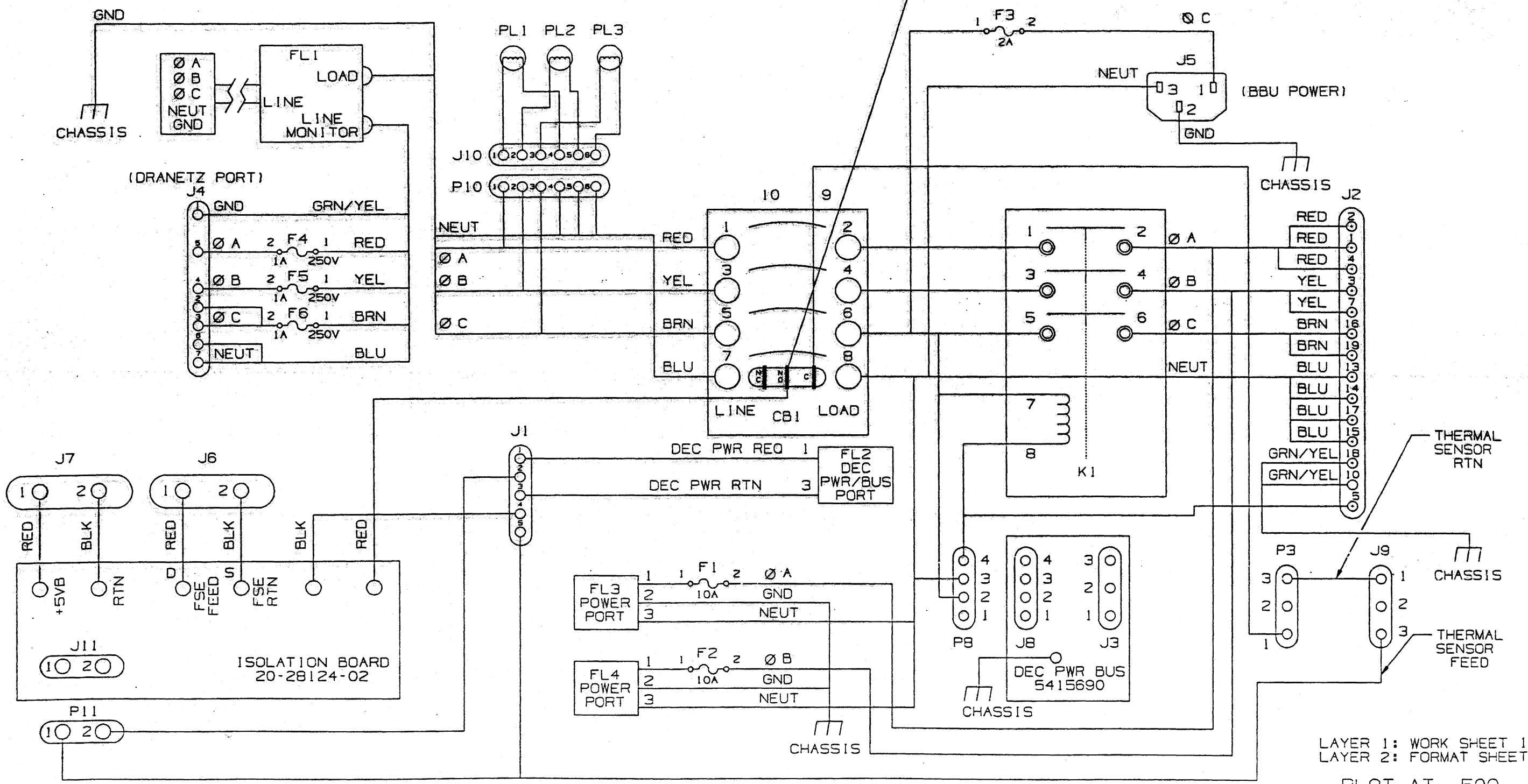
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	E E5	F F5	QUANTITY PER VARIATION/REVISION
1	1	E-AD-7025505-0-DBU	70-25505-01	COVER ASSY, LH	1	-	
2	2	E-AD-7025505-0-DBU	70-25505-02	COVER ASSY, 1H NON-DOM	-	1	
3	3	E-AD-7025507-0-DBU	70-25507-01 B	PANEL ASSY, COMPONENT	1	-	
4	4	E-AD-7025507-0-DBU	70-25507-02 C	PANEL ASSY, COMPONENT NON-DOM	-	1	
5	5	E-AD-7025506-0-DBU	70-25506-01 B	CHASSIS ASSY	1	-	
6	6	E-AD-7025506-0-DBU	70-25506-02 B	CHASSIS ASSY, NON-DOM	-	1	
7	7	D-MD-7435210-0-DBU	74-35210-01	COVER, H405E	1	1	
8	8		90-00062-10	SCREW, THD RL, PAN, SERATD, F/METL	20	20	
9	9		90-00062-14	SCREW, THD RL, PAN, SERATD, F/METL	4	4	
10	10		90-10586-02	NUT, KEP 6-32	4	4	
11	11		17-01811-01	WIRE HARN ASSY 03COND 12AWG 3RING-	-	1	
12	12		17-01808-01	WIRE HARN ASSY 10COND 12/14AWG 7RI	1	1	
13	13		17-01804-01	WIRE HARN ASSY 09COND 18AWG 5CONN+	1	-	
14	14		17-01807-01	WIRE HARN ASSY 08COND 18AWG 5MNL-4	-	1	
15	15		17-01810-01	WIRE HARN ASSY 04COND 16AWG 3RING	-	1	
16	16		17-01877-01	WIRE HARN ASSY 10COND 16/18AWG (2)	1	-	
17	17		17-01803-01	WIRE HARN ASSY 13COND 14AWG 19PCON	1	-	
18	18		17-01805-01	WIRE HARN ASSY 07COND 14AWG 19RCPT	-	1	
19	19		17-01845-01	JUMPER ASSY #16AWG RED	1	-	
20	20		17-01845-02	JUMPER ASSY #16AWG YEL	1	-	
21	21		17-01846-01	WIRE HARN ASSY 02COND 16AWG QCKDIS	1	-	
22	22		90-06565-00	NUT, HEX EXT TOOTH LCKWSHR 10-32X	19	19	
23	23		90-07032-00	TIE, CABLE BUNDL. DIA 0-1-3/4" X 7.3	1	1	
24	24		90-06664-00	WASHER, FLAT SST	19	19	
25	25		36-27920-01	LABEL, KAPTON, BLANK	.333	.333	
26	26		36-27921-01	LABEL, OVER LAMINATE POLYIMIDE	.333	.333	
27	27		36-27922-01	LABEL, DRY INK FOIL, BLACK	.333	.333	
28	28		36-26214-01	LABEL, FUSE WARNING FRENCH/ENGLISH	1	-	
29	29		36-26213-01	LABEL, FUSE REPLACEMENT	-	1	
30	30		36-25176-01	LABEL, FUSE WARNING, SMOOTH SURFACE	-	1	
31	31		36-26181-03	LABEL, CALYPSO BULKHEAD H405-E	1	-	
32	32		36-26181-04	LABEL, CALYPSO BULKHEAD H405-F	-	1	

REVISION HISTORY			KPL MATRIX FORMAT SECTION A OF A			DRN: K. GAGNON		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 20-MAY-87		
---	INITIAL	A	[A]	E, F	CHK'D:	J. KUSHIGAN	TITLE PARTS LIST	
FF	H405-LTN	B	[B]		DATE:	28-SEP-87	H405 ASSEMBLY	
AG	LTN02	C	[C]		DES.ENG:	F. FERREIRA		
AS	H405-LTN03	D	[D]		DATE:	03-NOV-87	DOCUMENT NUMBER	
AG	H405-LTN04	E	[E]		RESP.ENG.:	A. SELLING	SIZE	CODE
			[F]		DATE:	03-NOV-87	NUMBER	REV
			[H]		MFG.ENG.:	J. TUCKER	K	PL
			[J]		DATE:	03-NOV-87	H405-0-DBP	E
					RELEASE DATE:	20-JUN-88		
					RELEASE STATUS:	RELEASED		
					BASIC PART NUMBER:	H405	ASSEMBLY NUMBER:	E-UA-H405-0-DBU
					TOP DOCUMENT NUMBER:	B-DD-H405-0-DBU	FILE NAME:	H405E.PLS
					EDIT #	3		

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AUX SWITCH POSITION IS NORMALLY OPEN WHEN BREAKER IS IN OFF POSITION



LAYER 1: WORK SHEET 1
LAYER 2: FORMAT SHEET 1
PLOT AT .500

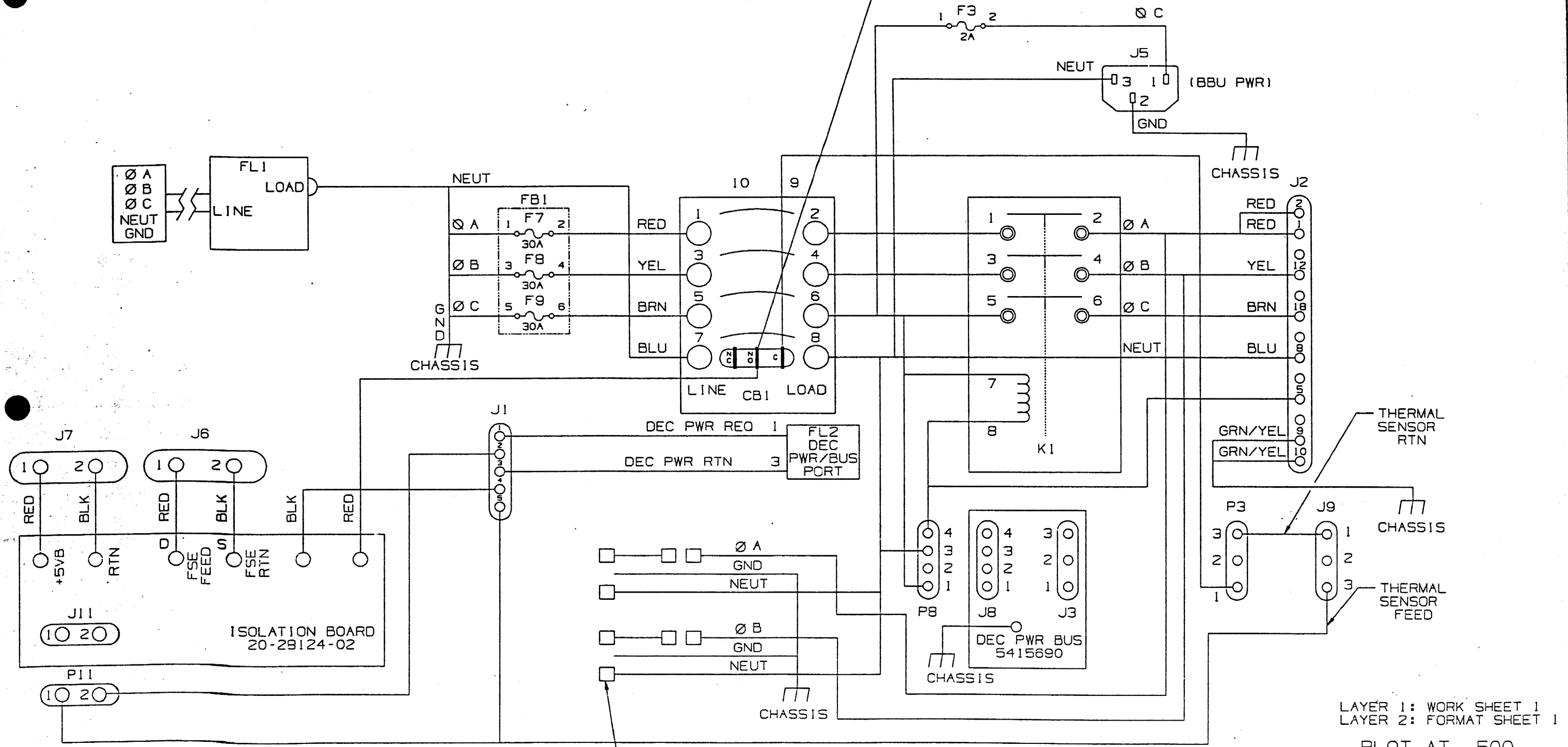
REV	DATE	BY	CHK	DESCRIPTION
1	1405-11001	A		INIT
2	1405-11001	B		FRANCIS F. FERGUSON
3	1405-11001	C		H. BROOKILLAND 04 MAR 87
4	1405-11001			ART GENOVA
5	1405-11004	D		R. BROOKILLAND 04 APR 88
6	1405-11004			LP
7	1405-11004			H. BROOKILLAND 20 JUN 88
8				ART GENOVA

DRN	R. LAVIGNE	DATE	14AUG87	TITLE	digital
CHK'D	J. KUSHIGAN	DATE	05OCT87	INTERCONNECT UCI ASSY, DOMESTIC	REV.
DES. ENG.	A. GENOVA	DATE	03NOV87		
RESP. ENG.	A. GENOVA	DATE	03NOV87	DOCUMENT NUMBER	
UPD. ENG.	J. TUCKER	DATE	03NOV87	SIZE	D
TOP DOC.	B-DD-H405-0-DBU	SCALE	1/2	NUMBER	H405-E-DBU
				SHEET	1 OF 1

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AUX SWITCH POSITION IS NORMALLY OPEN WHEN BREAKER IS IN OFF POSITION

1. APPLY HEAT SHRINK TUBING (8) PLACES (ITEM 36) TO UNUSED TERMINATIONS OF 17-01808-01 F1-1, F1-2, F2-1, F2-2, FL3-1, FL3-3, FL4-1, AND FL4-3.



SEE NOTE 1
 8 PLCS

LAYER 1: WORK SHEET 1
 LAYER 2: FORMAT SHEET 1
 PLOT AT .500

REV	DATE	BY	INITIALS	DESCRIPTION
1	14 AUG 87	R. LAVIGNE		INITIAL
2	05 OCT 87	J. KUSHIGAN		FRANCIS P. FERREIRA
3	03 NOV 87	A. GENOVA		R. BROUILLARD 04 MAR 88
4	03 NOV 87	A. GENOVA		A5 H405-LT102 C
5	03 NOV 87	A. GENOVA		ART GENOVA
6	03 NOV 87	J. TUCKER		R. BROUILLARD 04 APR 88
7	03 NOV 87	J. TUCKER		LP H405-LT103 D
8	03 NOV 87	J. TUCKER		A. SELLING
9	03 NOV 87	J. TUCKER		K. GAGNON 05 MAY 88
10	03 NOV 87	J. TUCKER		LP H405-LT104 E
11	03 NOV 87	J. TUCKER		R. BROUILLARD 20 JUN 88
12	03 NOV 87	J. TUCKER		A. GEDOVA

DATE	BY	INITIALS	DESCRIPTION
14 AUG 87	R. LAVIGNE		DATE
05 OCT 87	J. KUSHIGAN		DATE
03 NOV 87	A. GENOVA		DATE
03 NOV 87	A. GENOVA		DATE
03 NOV 87	J. TUCKER		DATE

TITLE		digital	
INTERCONNECT UC1 ASSY, EUROPE			
DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
D	IC	H405-F-DBU	E
SCALE		SHEET 1 OF 1	
1/2			

REV. E H405-F-DBU D I C

SCALE: 0.312

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WIRE TABLE								
ITEM NO	VAR	DESCRIPTION		FROM		TO		REMARKS
		AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
3	-E		BLK	FL1		J10-4		
3	-E		RED	FL1		J10-1		
3	-E		BLK	PL2		J10-5		
3	-E		RED	PL2		J10-2		
3	-E		BLK	PL3		J10-6		
3	-E		RED	PL3		J10-3		
3/4	-E		GRN/YEL	FL3-2		GND STUD 2		
3/4	-E		GRN/YEL	FL4-2		GND STUD 2		
3/4	BOTH	10	BRN	PWR CORD		FL1-0A		OA
3/4	BOTH	10	BLK	PWR CORD		FL1-0B		OB
3/4	BOTH	10	BLK/WHT	PWR CORD		FL1-0C		OC
3/4	BOTH	10	BLU	PWR CORD		FL1-NEUT		NEUT
3/4	BOTH	10	GRN/YEL	PWR CORD		FL1-GND		GROUND
3/4	BOTH		YEL	FL2-1		J1-1		
3/4	BOTH		VIO	FL2-3		J1-3		
5/8	BOTH		RED	ISO BD		CB1-NO		
5/8	BOTH		BLK	ISO BD		J1-4		
5/8	BOTH		BLK	P11-1		J1-5		
5/8	BOTH		RED	P11-2		J1-2		
5	-E		GRN/YEL	FL1		J4-1		LINE GRND
5	-E		RED	FL1		F4-1		LINE OA
5	-E		YEL	FL1		F5-1		LINE OB
5	-E		BRN	FL1		F6-1		LINE OC
5	-E		BLU	FL1		J4-6		LINE NEUT
5	-E		BLU	FL1		J4-7		LINE NEUT
5	-E		BLU	FL1		CB1-7		LOAD NEUT
5	-E		RED	FL1		CB1-1		LOAD OA
5	-E		YEL	FL1		CB1-3		LOAD OB
5	-E		BRN	FL1		CB1-5		LOAD OC
5	-E		GRN/YEL	FL1		GND STUD 3		LOAD GRND
6	-F		BLU	FL1		CB1-7		LOAD NEUT
6	-F		RED	FL1		FBI-1		LOAD OA
6	-F		YEL	FL1		FBI-3		LOAD OB
6	-F		BRN	FL1		FBI-5		LOAD OC
6	-F		GRN/YEL	FL1		GND STUD 3		LOAD GRND
11	-F	12	RED	FBI-2		CB1-1		OA
11	-F	12	YEL	FBI-4		CB1-3		OB
11	-F	12	BRN	FBI-6		CB1-5		OC
12	BOTH	12	RED	CB1-2		K1-1		OA
12	BOTH	12	YEL	CB1-4		K1-3		OB
12	BOTH	12	BRN	CB1-6		K1-5		OC
12	-E	14	RED	F1-1		FL3-1		OA
12	-E	14	YEL	F2-1		FL4-1		OB
12	-E	14	RED	K1-2		F1-2		OA
12	-E	14	YEL	K1-4		F2-2		OB
12	BOTH	16	BRN	K1-5		K1-7		OC
12	-E	14	BLU	CB1-8		FL3-3		NEUT
12	-E	14	BLU	CB1-8		FL4-3		NEUT

WIRE TABLE								
ITEM NO	VAR	DESCRIPTION		FROM		TO		REMARKS
		AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
13	-E	16	BRN	P8-4		K1-8		OC
13	-E	18	BRN	P8-4		J2-5		OC
13	-E	16	BLU	P8-3		CB1-8		NEUT
13	-E	16	BRN	P8-2		CB1-6		OC
13	-E	16	YEL	P3-1		CB1-C		
13	-E	16	BRN	P3-3		J9-1		
13	-E	16	RED	J9-3		J1-5		
14	-F	16	BRN	P8-4		K1-8		OC
14	-F	18	BRN	P8-4		J2-5		OC
14	-F	16	BLU	P8-3		CB1-8		NEUT
14	-F	16	BRN	P8-1		CB1-6		OC
14	-F	16	YEL	P3-1		CB1-C		
14	-F	16	BRN	P3-3		J9-1		
14	-F	16	RED	J9-3		J1-5		
15	-F	16	BRN	CB1-8		F3-1		OC
15	-F	16	BLU	CB1-8		J5-3		NEUT
15	-F	16	BRN	J5-1		F3-2		OC
15	-F	16	GRN/YEL	J5-2	SOLDER CONN.	GND STUD 1		GROUND
16	-E	18	RED	P10-1		CB1-1		OA
16	-E	18	YEL	P10-2		CB1-3		OB
16	-E	18	BRN	P10-3		CB1-5		OC
16	-E	16	BRN	F3-1		CB1-6		OC
16	-E	18	BLU	P10-4		CB1-7		NEUT
16	-E	18	BLU	P10-5		CB1-7		NEUT
16	-E	18	BLU	P10-6		CB1-8		NEUT
16	-E	16	BLU	J5-3		CB1-7		NEUT
16	-E	16	BRN	J5-1		F3-2		OC
16	-E	16	GRN/YEL	J5-2	SOLDER CONN.	GND STUD 1		GROUND
17	-E	14	RED	J2-1/2		K1-2		OA
17	-E	14	RED	J2-4		K1-2		OA
17	-E	14	YEL	J2-3/7		K1-4		OB
17	-E	14	BRN	J2-16/19		K1-6		OC
17	-E	14	BLU	J2-13/14		CB1-8		NEUT
17	-E	14	BLU	J2-15/17		CB1-8		NEUT
17	-E	14	GRN/YEL	J2-10/18		GND STUD 1		GROUND
18	-F	14	RED	J2-1		K1-2		OA
18	-F	14	RED	J2-2		K1-4		OB
18	-F	14	YEL	J2-12		K1-4		OB
18	-F	14	BRN	J2-18		K1-6		OC
19	-F	14	GRN/YEL	J2-9		GND STUD 1		GROUND
18	-F	14	GRN/YEL	J2-10		GND STUD 1		GROUND
18	-F	14	BLU	J2-8		CB1-8		NEUT
19	-E	16	RED	F4-2		J4-5		OA
20	-E	16	YEL	F5-2		J4-4		OB
21	-E	16	BRN	F6-2		J4-2		OC
21	-E	16	BRN	F6-2		J4-3		OC

REVISION HISTORY		
DATE	BY	REV

TITLE H405 ASSEMBLY
 DOCUMENT NUMBER H405-0-DBU E
 SCALE 1/1 SHEET 2 OF 2

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION/REVISION
1	D-IA-7024169-0-DBU	70-24169-01		BRACKET ASSY, 30 OW REGULATOR	1	
2		54-16977-01 E		-5.25V, -2V +12V, -12V POWER SUPPLY	1	
3		90-06020-01		SCREW, MACH PAN PHIL 6-32	6	
4		90-06633-00		WASHER, LOCK INTERNAL STEEL	6	
5		36-27920-01		LABEL, KAPTON, BLANK	.333	
6		36-27921-01		LABEL, OVER LAMINATE POLYIMIDE	.333	
7		36-27922-01		LABEL, DRY INK FOIL, BLACK	.333	
8		36-17674-46		LABEL, SERIAL/POWER, UNIV, USA, UR/CSA	1	

REVISION HISTORY			KPL MATRIX FORMAT SECTION A OF A		DRN: K. GAGNON	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 29-SEP-86				
---	INITIAL	A	[A]	A	CHK'D: J. KUSHIGAN	TITLE PARTS LIST			
JW	H7215-LTN01	B	[B]		DATE: 27-MAY-87	REGULATOR, 300 W			
JW	H7215-LTN02	C	[C]		DES. ENG: J. WEEKS	ASSY			
			[D]		DATE: 17-NOV-87	DOCUMENT NUMBER			
			[E]			SIZE	CODE	NUMBER	
			[F]		RESP. ENG.: D. CALDERAN			REV	
			[H]		DATE: 17-NOV-87	K	PL	H7215-0-DBP	
			[J]					C	
					MFG. ENG: R. LACHANCE	RELEASE DATE: 30-AUG-88			
					DATE: 17-NOV-87	RELEASE STATUS: RELEASED			
					BASIC PART NUMBER: H7215	ASSEMBLY NUMBER: E-AD-H7215-0-DBU	TOP DOCUMENT NUMBER: K-DD-H7215-0-0	FILE NAME: H7215C.PLS	EDIT #: 2

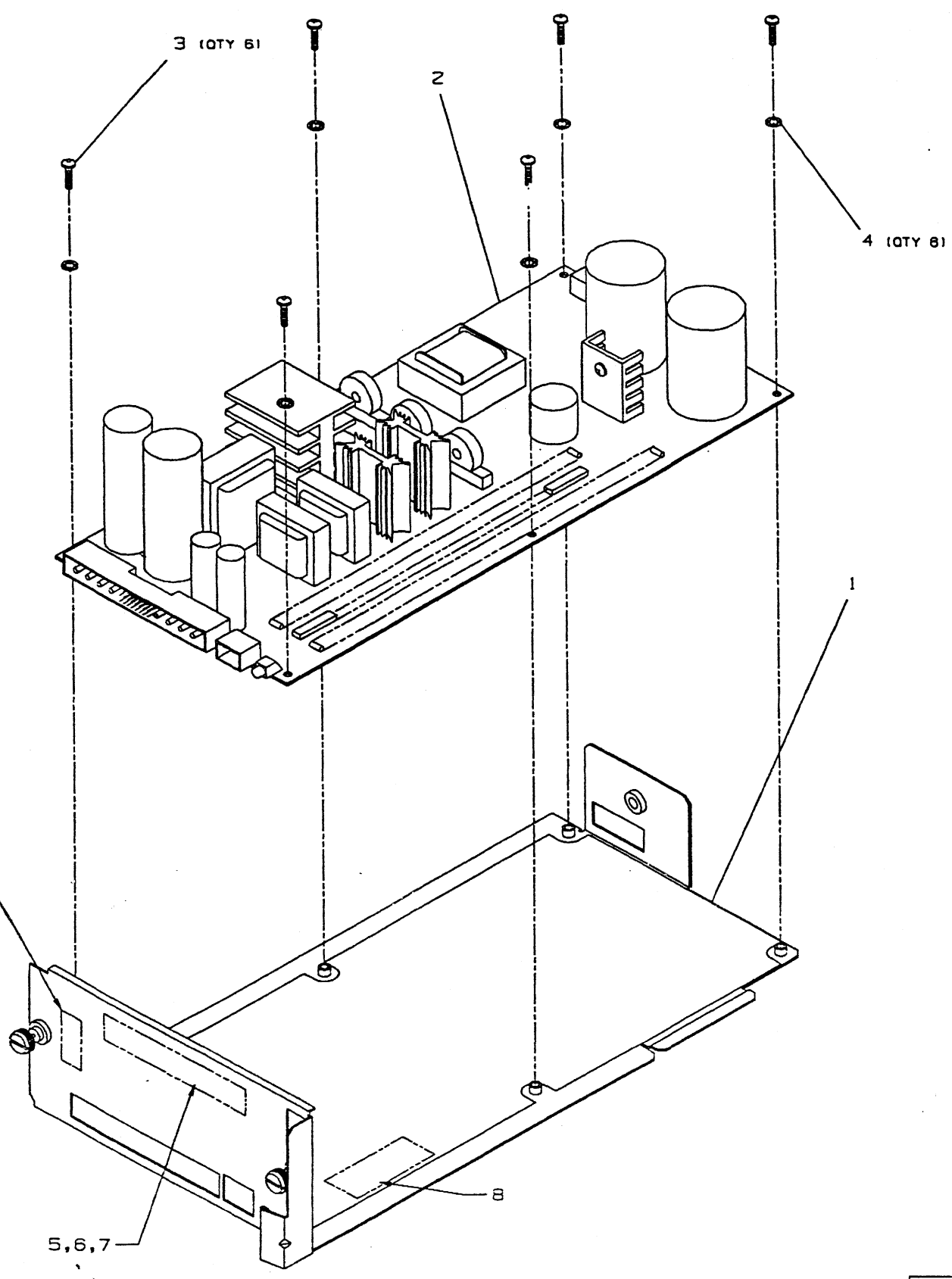
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SCALE: 0.313

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF. DIMENSIONS ARE TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED. DIMENSIONS TO BE TAKEN TO THE CENTER UNLESS OTHERWISE SPECIFIED.

LEGEND		
PART NO	REV	VARIATION
H7215-A	E6	AS SHOWN

- NOTES:
- IDENTIFICATION: MARK PART WITH THE FOLLOWING INFORMATION, APPROXIMATE LOCATION SHOWN PER DEC STD 178.
(A) PART NUMBER
(B) REV LEVEL
(C) VENDOR IDENTIFICATION
 - PART SHALL CONFORM TO DEC STD 187.
 - TORQUE ITEM 3 SCREWS TO 4±.8 IN-LBS.



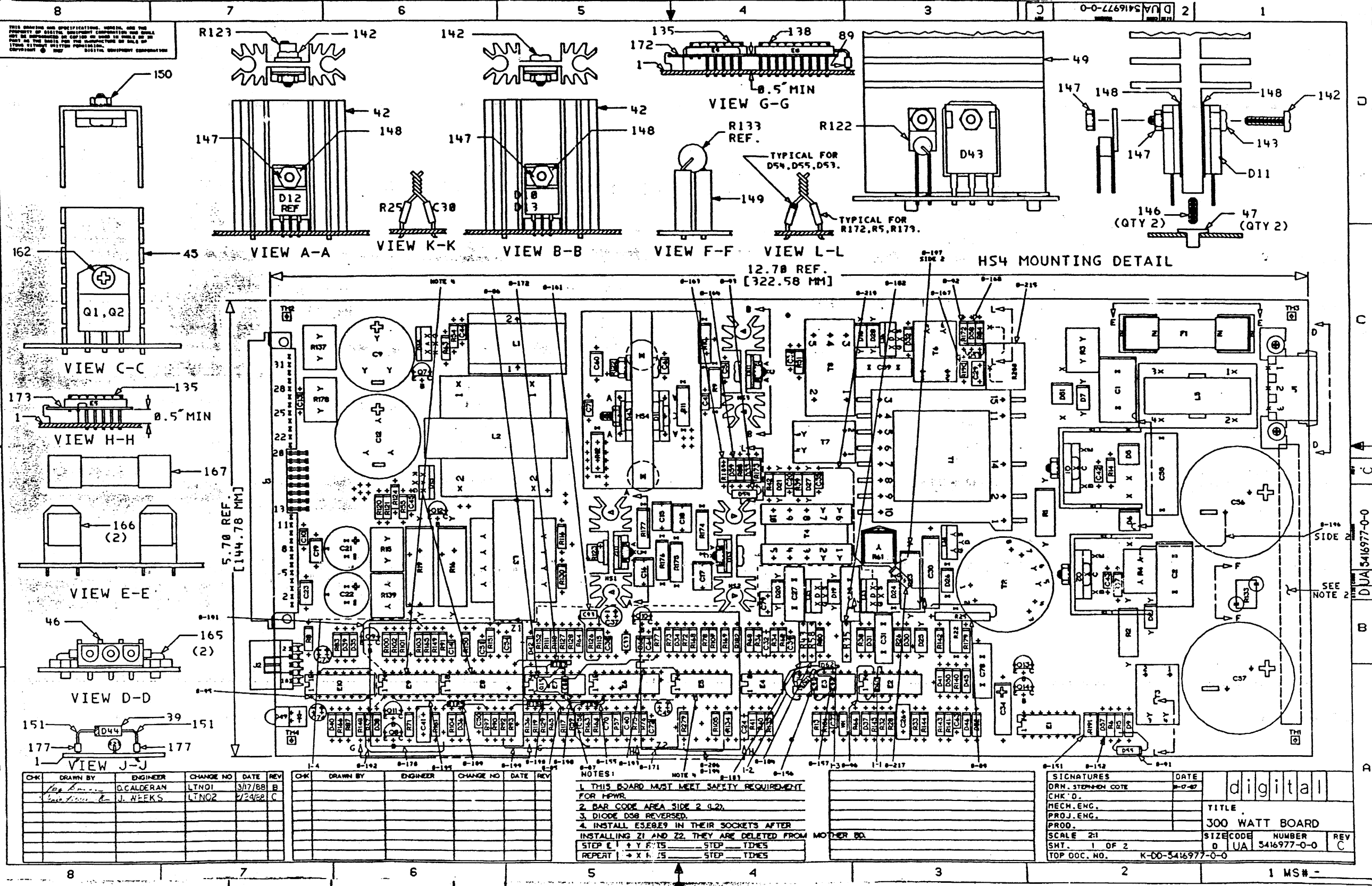
SEE NOTE 1 NEAR SIDE

LAYER 1: WORK LAYER
LAYER 2: FORMAT LAYER
CAUTION: OFF SHEET PARTS EXISTS
SEE K-PL-H7215-0-DBP
PLOT AT: 1.00

REV	DATE	BY	CHKD	APP'D
1	17NOV87	J. KUSHIGAN		
2	17NOV87	J. CALDERAN		
3	17NOV87	R. LADANCE		
4	17NOV87			
5	17NOV87			
6	17NOV87			
7	17NOV87			

INDEX	DESCRIPTION	DATE	TITLE
1	REGULATOR, 300 W	25 SEP 87	digital
2	REGULATOR, 300 W	08 MAY 87	
3	REGULATOR, 300 W	17NOV87	
4	REGULATOR, 300 W	17NOV87	
5	REGULATOR, 300 W	17NOV87	
6	REGULATOR, 300 W	17NOV87	
7	REGULATOR, 300 W	17NOV87	

LTN



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CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
	J. ALDERAN	J. ALDERAN	LTN01	3/17/88	B
	J. ALDERAN	J. ALDERAN	LTN02	2/24/88	C

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES:
 1. THIS BOARD MUST MEET SAFETY REQUIREMENT FOR HPWR.
 2. BAR CODE AREA SIDE 2 (L2).
 3. DIODE D58 REVERSED.
 4. INSTALL E58E9 IN THEIR SOCKETS AFTER INSTALLING Z1 AND Z2. THEY ARE DELETED FROM MOTHER BD.
 STEP E → Y TIMES STEP TIMES
 REPEAT → X TIMES

SIGNATURES	DATE
DRN. STEPHEN COTE	3-7-87
CHK'D.	
MECH. ENG.	
PROJ. ENG.	
PROD.	
SCALE 2:1	
SHT. 1 OF 2	
TOP OOC. NO.	K-00-5416977-0-0

digital	
TITLE 300 WATT BOARD	
SIZE CODE	NUMBER
0 UA	5416977-0-0
REV	C
1 MS# -	

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THE FOLLOWING ONLY CLERIFY REWORK INSTRUCTIONS NOTED ON PCA09, PCA10, PCA11, & PCA12 FOR DRAFTING PURPOSES.)

REASON FOR CHANGE: UPDATE PCA FROM 12 TO 13 TO RELEASE.

DESCRIPTION OF CHANGE: D-UA-54-16977-0-0

- 0-85: RUN WIRE FROM TOP OF R117 TO E7-12. (R59 WAS NOTED INCORRECTLY ON PCA09. ERROR CORRECTED ON PCA12 REF. 0-222)
- 0-86: UNSOLDER THE BOTTOM END OF R77. SOLDER BOTTOM END OF R77 TO BARE OF Q15. SOLDER THE EMITTER OF Q15 TO E7-11. SOLDER THE COLLECTOR OF Q15 TO E7-5.
- 0-89: UNSOLDER THE BOTTOM END OF C30, LIFT THE BOTTOM END OF C30 UP AND SOLDER ONE END OF R25 TO THE LIFTED END OF C30. THEN, SOLDER THE OTHER END OF R25 INTO THE BOTTOM HOLE OF C30.
- 0-91: UNSOLDER THE BOTTOM END OF R5 AND LIFT THE BOTTOM END OF R5 AND SOLDER THE CATHODE OF D55 TO THE LIFTED END OF R5. THEN SOLDER THE ANODE OF D55 TO THE BOTTOM HOLE OF R5.
- 0-92: UNSOLDER THE BOTTOM END OF R172. LIFT THE END OF R172 AND SOLDER THE CATHODE OF D53 TO THE LIFTED END OF R172. THEN SOLDER THE ANODE OF D53 TO THE BOTTOM OF R172.
- 0-93: UNSOLDER THE BOTTOM OF R173 AND LIFT THE END OF R173 AND SOLDER THE CATHODE OF D54 TO THE LIFTED END OF R173. THEN SOLDER THE ANODE OF D54 TO THE BOTTOM OF R173.
- 0-95: RUN WIRE FROM E10-1 TO E10-8 AND RUN A WIRE FROM E10-15 TO E10-8.
- 0-96: RUN WIRE FROM E2-4 TO E2-13 SIDE 1.
- 0-151: ADD ITEM 69, P/N 13-02466-00, REF DES R191.
- 0-152: ADD ITEM 28, P/N 11-05275-00. REF DES D57. CATHODE TO TOP.
- 0-156: ADD ITEM 10, P/N 10-12784-00, REF DES C91 FROM E3-4 TO E3-12.
- 0-155: ADD ITEM 152, P/N 13-09413-00, REF DES R184 FROM E6-2 TO ETCH THAT CONNECTS TO BOTTOM OF R134.
- 0-157: ADD ITEM 7, P/N 10-10274-02, REF DES C92 FROM E3-5 TO E3-12.
- 0-161: ADD ITEM 15, P/N 10-13466-12, REF DES C93. PIGGYBACK ACROSS R115.
- 0-163: ADD ITEM 69, P/N 13-02466-00, REF DES R189.
- 0-164: ADD ITEM 29, P/N 11-05275-00, REF DES D59. CATHODE TOP.
- 0-167: ADD ITEM 69, P/N 13-02466-00, REF DES R190.
- 0-168: ADD ITEM 28, P/N 11-05275-00, REF DES D58. CATHODE FACES BOTTOM.
- 0-170: ADD ITEM 172, P/N 20-29131-01, REF DES Z1. INSERT IN PLACE OF E9-3 THRU E9-12, E8.

0-87: SOLDER ONE SIDE OF C80 TO E7-11 AND THE OTHER SIDE OF C80 TO E7-5

- 0-171: ADD ITEM 173, P/N 20-29132-01, REF DES Z1. INSERT IN PLACE OF E5-3 THRU E5-12.
 - 0-172: ADD ITEM 89, P/N 13-22214-01, REF DES R187 FROM E7-12 TO E5-12 ON Z1, ITEM 172. USE SLEEVING, P/N 91-07278-09 ON LEAD GOING TO E5-12.
 - 0-182: ADD ITEM 57, P/N 13-00364-00, REF DES R35.
 - 0-183: ADD ITEM 57, P/N 13-00364-00, REF DES R43.
 - 0-184: ADD ITEM 57, P/N 13-00364-00, REF DES R58.
 - 0-189: ADD ITEM 59, P/N 13-00447-00, REF DES R185 FROM TOP OF R97 TO VIA HOLE CONNECTED TO E3-7 USE SLEEVING ON RIGHT LEAD (ON SIDE 1)
 - 0-190: ADD ITEM 59, P/N 13-00447-00, REF DES R186 FROM TOP OF R93 ON SIDE 2 TO ETCH LEADING TO E3-5.
- WIRE ADDS SIDE 1
- 0-191: ADD WIRE, ITEM 171, P/N 91-05740-55 FROM FORMERLY E9-14 TO ITEM 172, P/N 20-29131-01, REF DES Z1, TOP SIDE.
 - 0-192: ADD WIRE, ITEM 171, P/N 91-05740-55 FROM FORMERLY E9-1 TO ITEM 172, P/N 20-29131-01, REF DES Z1, BOTTOM SIDE.
 - 0-193: ADD WIRE, ITEM 171, P/N 91-05740-55 FROM FORMERLY E5-14 TO ITEM 173, P/N 20-29132-01, REF DES Z2, TOP SIDE.
 - 0-194: ADD WIRE, ITEM 171, P/N 91-05740-55 FROM FORMERLY E5-1 TO ITEM 173, P/N 20-29132-01, REF DES Z2, BOTTOM SIDE.
- 0-206 DOCUMENTATION CHANGE ONLY. REROUTE WIRE FROM BOTTOM SIDE ITEM 173, SHOWN GOING TO PTH TO LEFT OF R279, TO BOTTOM SIDE OF R279.
- 0-195: ADD WIRE, ITEM 171, P/N 91-05740-55 FROM E9-2 TO E5-1.
 - 0-198: ADD WIRE, ITEM 171, P/N 91-05740-55 FROM E7-5 TO E6-2.
 - 0-199: ADD WIRE FROM R92 BOTTOM TO D56 TOP (ANODE). (STEP 0-208 DELETES D56 AND STEP 0-218 ADDS R279 IN ITS PLACE.
- SIDE 2 WIRE ADDS
- 0-196: ADD WIRE, ITEM 176, P/N 91-07560-03 FROM TOP OF R4 TO C56 (-). (AS VIEWED FROM SIDE 1) ADD TO SIDE 2.
 - 0-197: ADD WIRE, ITEM 176, P/N 91-07560-03 FROM RIGHT SIDE OF EC 0-100 TO FEED THRU BELOW IT. ADD TO SIDE 2.
 - 0-219 ADD ITEM 176 P/N 91-07560-03 FROM PTH LOWER RIGHT SIDE R61 TO ETCH WHICH CONNECTS TOP SIDE OF C35 AND C20.

COMPONENT ADDS SIDE 1

- 0-215 ADD ITEM 84, P/N 13-25575-01, REF. DES. R280. ONE LEAD OF RESISTOR SHOULD BE PLACED IN PTH FORMALLY OCCUPIED BY D44 ANODE. THE OTHER LEAD SHOULD BE BENT OUTWARD AND TACK SOLDERED TO ETCH WHICH LEADS TO PTH WHICH WAS FORMALLY OCCUPIED BY D44 CATHODE.
- 0-217 INSTALL ITEM 151, P/N 91-07278-09, AND ITEMS 177, P/N 90-05798-01, ON ITEM 39, P/N 11-10854-00 AS SHOWN IN VIEW J-J. TACK SOLDER ANODE SIDE TO ETCH WHICH LEADS TO ANODE OF D26. INSTALL CATHODE THROUGH LOWER LEFT SIDE PTH OF R61 PER UA DWG. CAUTION! BE SURE COMPONENT IS NOT TOUCHING OTHER COMPONENTS.

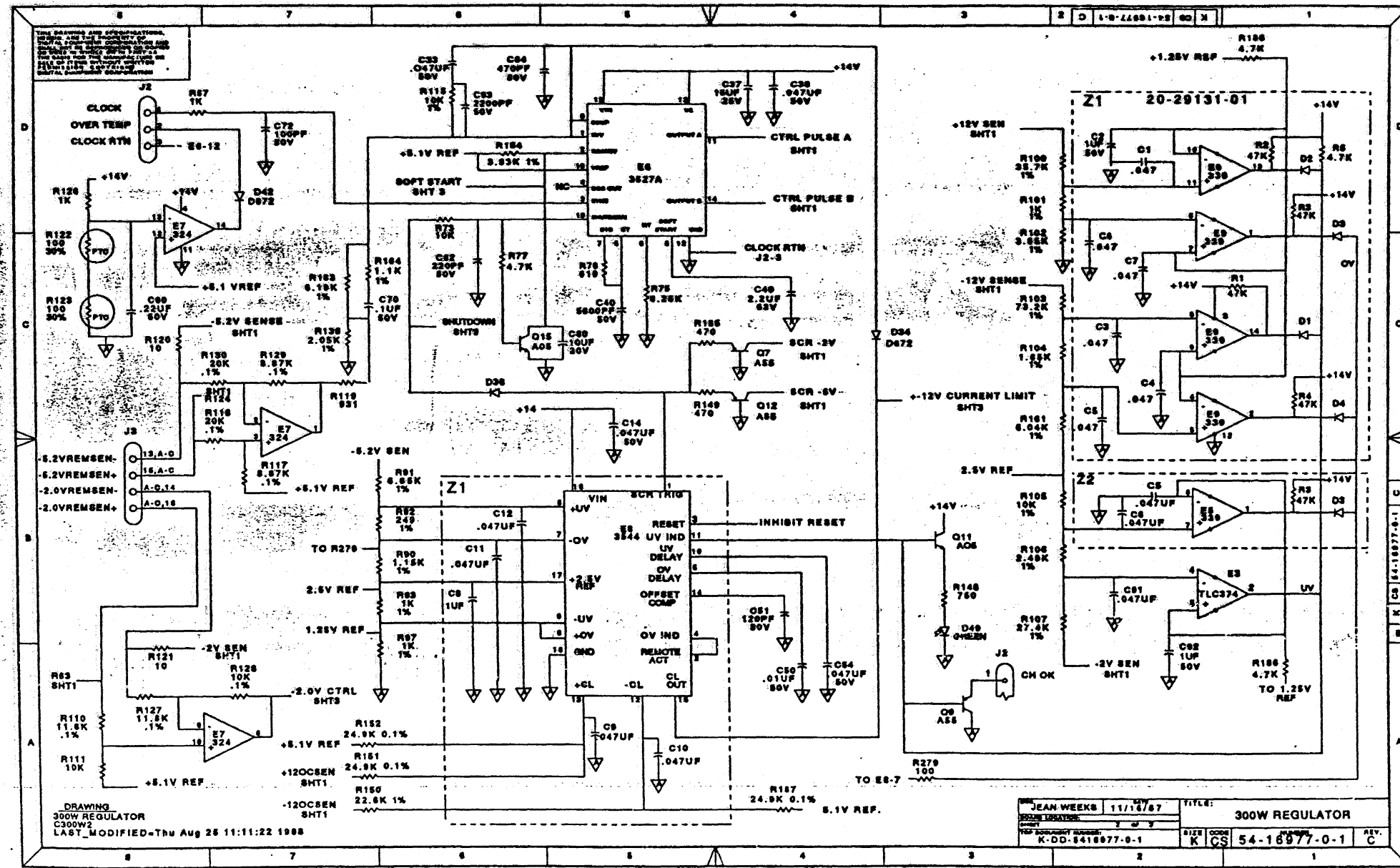
ETCH CUTS S1, S2 SEE D-EC-5016976-0-0

REWORK INSTRUCTIONS
5416977-LTNO!
COMPONENT ADDS SIDE 1

- I-1 ADD D60 ON E2, CATHODE TO PIN 1, ANODE TO PIN 12.
 - I-2 ADD D61 ON E3, CATHODE TO PIN 14, ANODE TO PIN 12.
 - I-3 ADD D62 ON E3, CATHODE TO PIN 1, ANODE TO PIN 12.
- WIRE ADD SIDE 2
- I-4 ADD WIRE, ITEM 176 (18 AWG) FROM Q3 SOURCE TO R8 (TOP) GND. ADD SLEEVING, ITEM 151.

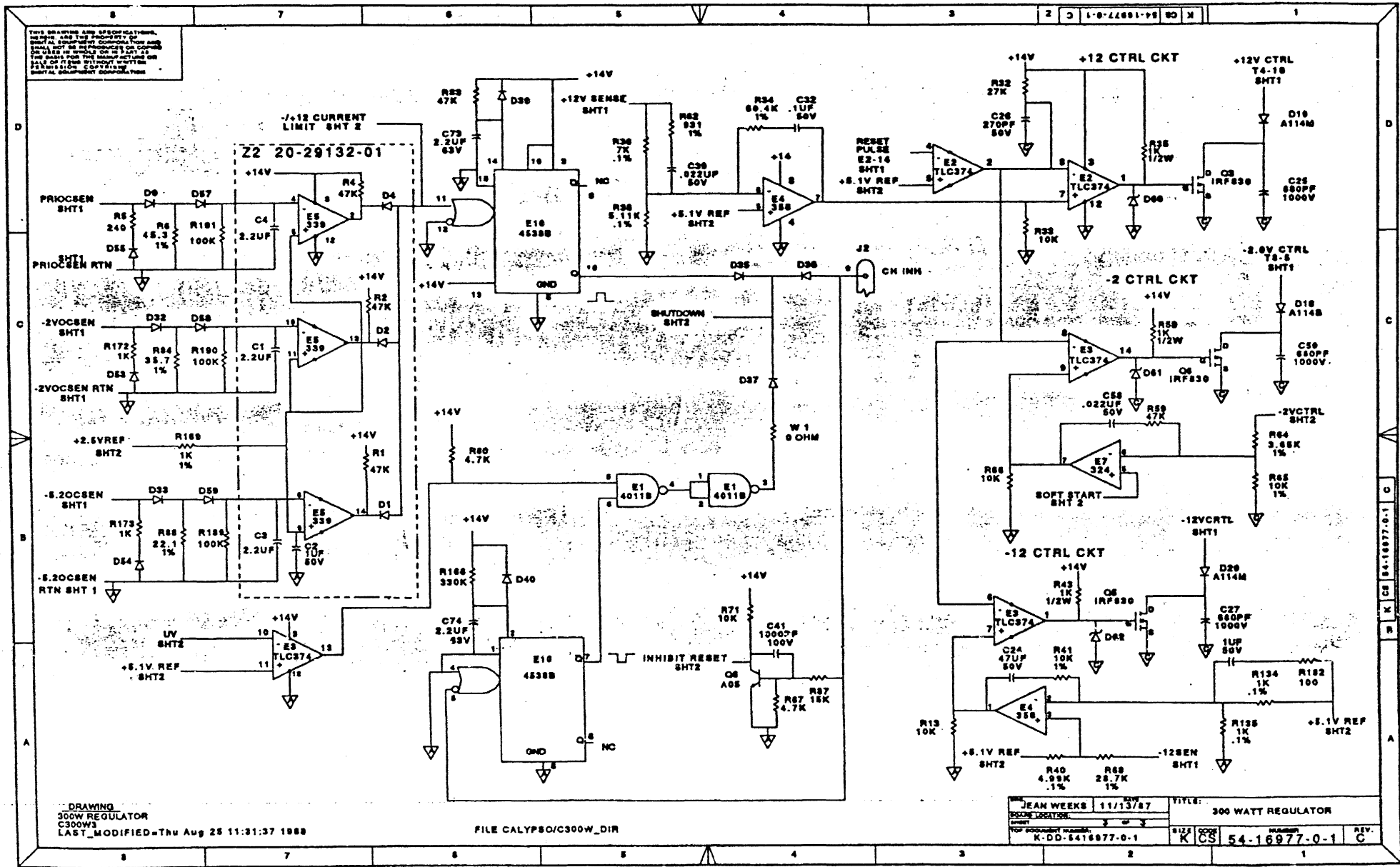
D
C
A
B
P
DUA 5416977-0-0 C1

TITLE		DOCUMENT NUMBER		REV.
300 WATT BOARD		DUA 5416977-0-0		C.
SCALE	21	SHEET		2 OF 2



DRAWING
300W REGULATOR
C300W2
LAST_MODIFIED=Thu Aug 28 11:11:22 1988

DESIGNER	JEAN WEEKS	DATE	11/18/87	TITLE	300W REGULATOR
DESIGN NO.	K-DD-5416977-0-1	REV.	C	REV.	C



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DRAWING
 300W REGULATOR
 C300W3
 LAST_MODIFIED=Thu Aug 26 11:31:37 1988

FILE CALYPSO/C300W_DIR

DESIGNER	JEAN WEEKS	DATE	11/13/87	TITLE	300 WATT REGULATOR
CHECKED					
APPROVED					
REV. NO.	1	DATE		REV. NO.	1
PROJECT NO.	K-DD-5416977-0-1	SIZE	0000	NUMBER	54-16977-0-1
				REV.	C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						01 E10	
1	1	D-MD-5016976-0-0	50-16976-01		CIRCUIT DRILL AND ETCH	1	
2	2		10-00022-00		270 PFD 100V +/- 5% 200PP	1	C26
3	3		10-00042-00		1000 PFD 100V +/- 5% 200PP	1	C41
4	4		10-04813-00		10 MFD 20V +/-10% SOL	1	C80
5	5		10-15573-01		5600 PFD 50V +/- 5% X7R C	1	C40
6	6		10-09312-00		*** THIS ITEM IS NOT USED ***	-	
7	7		10-10274-02		1.0 MFD 50V +80/-20% Z5U C	7	C10,C13,C19,C23,C29,C79,C92
8	8		10-16184-00		1200 PFD 600V +/-10% POLYP	2	C1,C2
9	9		10-12607-00		560 MFD 20V +100/-10% ALU	2	C21,C22
10	10		10-12784-00		0.047MFD 50V +80/-20% Z5U C	9	C14,C33,C38,C42-C45,C54,C91
11	11		10-13466-06		100 PFD 50V +/- 5% NPO C	1	C72
12	12		10-13466-07		220 PFD 50V +/- 5% NPO C	1	C62
13	13		10-16569-00		2200 PFD 100V +/-10% MYLAR	4	C15-C18
14	14		10-13466-16		0.010MFD 50V +/-10% X7R C	9	C4-C7,C20,C35,C36,C50,C63
15	15		10-13466-12		2200 PFD 50V +/-10% X7R C	1	C93
16	16		10-13466-19		470 PFD 50V +/- 5% NPO C	1	C64
17	17		10-13466-26		120 PFD 50V +/- 5% NPO C	1	C51
18	18		10-14170-00		2700 PFD 100V +/- 1% 70PP	1	C31
19	19		10-14260-00		11,000 MFD 6.3V +75/-10% ALU	1	C12
20	20		10-16681-00		0.47 MFD 50V +80/-20% Z5U C	1	C24
21	21		10-17897-01		0.22 MFD 50V +80/-20% Z5U C	1	C60
22	22		10-18000-00		2.2 MFD 63V +50/-20% ALU	3	C49,C73,C74
23	23		10-18000-01		15 MFD 25V +50/-20% ALU	1	C37
24	24		10-26378-01		330 MFD 400V +/-20% ALU	2	C56,C57
25	25		10-26408-01		9600 MFD 6.3V +50/-10% ALU	1	C9
26	26		10-02342-00		0.10 MFD 100V +/-10% MYLAR	1	C30
27	27		10-04812-00		15 MFD 20V +/-10% SOL	1	C34
28	28		11-05275-00		PIV= 60 IO=300 MA -15NS	21	D9,D32-D42,D46,D50,D52-D55, CONT D57-D59
29	29		11-05314-00		PIV= 225 IO= .40A 1N645 DO-7	3	D30,D31,D45

REVISION HISTORY		!KPL MODULE FORMAT!SECTION A OF A!DRN: S. BOSWORTH		!DATE: 09-JUN-87		D I G I T A L				
ENG!	ECO NUMBER	!REV.	!SECTION/VARIATION INDEX		!CHK'D: C. LIVIERATOS		!TITLE PARTS LIST			
JW	LTN01	B	[A]	01	[M]	!DATE: 09-JUN-87		!REGULATOR BOARD		
JW	5416977-LTN02	C	[B]		[N]	!DES.ENG: JEAN WEEKS		!DOCUMENT NUMBER		
			[C]		[P]	!DATE: 19-NOV-87		!SIZE!CODE! NUMBER. !REV		
			[D]		[Q]	!RESP.ENG.: JEAN WEEKS		K PL 5416977-0-DBP C		
			[E]		[R]	!DATE: 19-NOV-87		!RELEASE DATE: 24-AUG-88		
			[F]		[S]	!MFG.ENG: J. TUCKER		!RELEASE STATUS: RELEASED		
			[H]		[T]	!DATE: 19-NOV-87				
			[J]		[V]					
			[K]		[W]					
			[L]		[Y]					
!BASIC PART NUMBER:			!ASSEMBLY NUMBER:			!TOP DOCUMENT NUMBER:			!EDIT #	
5416977			D-UA-5416977-0-0			K-DD-5416977-0-0			1	
!FILE NAME: GH765C.PLS										

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						01 E10	
30	30		11-00125-00		VZ= 10.0 5% 400 MW 1N758A	3	D60-D62
31	31				*** THIS ITEM IS NOT USED ***	-	
32	32		11-12594-02		PIV= 600 IO= 3.00A	3	D5,D6,D51
33	33		11-12595-01		PIV= 200 IO= 1.00A AXIAL	5	D16,D21,D25,D27,D28
34	34		11-12595-02		PIV= 600 IO= 1.00A AXIAL	4	D7,D8,D19,D20
35	35		11-15465-01		RECT,ULTRA FAST PIV=150 IO= 2.0	2	D24,D26
36	36		11-17061-00		THYRISTOR, VDRM= 25 MC	2	D14,D15
37	37		11-17373-00		LED ASSY GREEN	1	D49
38	38		11-17555-00		RECT,ULTRA FAST PIV= 150 IO= 3.0	2	D12,D13
39	39		11-10854-00		VZ= 16.0 5% 5 W 1N5353B	1	D44
40	40		11-28027-01		SCHOTTKY PIV=45 IO=40A T0247	1	D43
41	41		11-22258-01		SCHOTTKY PIV= 45 IO=30.00A CENT	1	D10
42	42		12-13921-13		HEAT SINK, EXTRUSION 1.380X1.50	3	HS1-HS3
43	43		12-16112-00		PCB,HEADER 10POS(2X05).100CC 90D	1	J2
44	44		11-23892-02		RECT,ULTRA FAST PIV= ,300 IO=15.	1	D11
45	45		12-27850-01		HEAT SINK	2	HS5,HS6
46	46		12-21027-01		MATE-N-LOK 03PIN(1X03).250CC ASS	1	J1
47	47				*** THIS ITEM IS NOT USED ***	-	
48	48		12-26412-01		PCB HEADER 24POS(3X08).100CC 90D	1	J3
49	49		12-28199-01		HEAT SINK, T0-218	1	HS4
50	50		13-00168-00		10.0 .50 W 5.0 % CF	4	R9-R12
51	51		13-28110-01		5.6 5.0 W 5.0 % WW	1	R137
52	52		13-00197-00		33.0 .25 W 5.0 % CF	3	R39,R42,R51
53	53				*** THIS ITEM IS NOT USED ***	-	
54	54		13-04865-00		1.0 K .25 W 0.1 % RN55E-B 2	2	R134,R135
55	55		13-00316-00		470.0 .25 W 5.0 % CF	2	R149,R165
56	56		13-00365-00		1.0 K .25 W 5.0 % CF	5	R57,R126,R172,R173,R179
57	57		13-00364-00		1.0 K .50 W 5.0 % CF	3	R35,R43,R58
58	58		13-00445-00		4.70 K .50 W 5.0 % CF	1	R22
59	59		13-00447-00		4.70 K .25 W 5.0 % CF	6	R67,R77,R80,R145,R185,R186
60	60		13-00479-00		10.0 K .25 W 5.0 % CF	6	R13,R33,R66,R71,R73,R140
61	61		13-00496-00		15.0 K .25 W 5.0 % CF	1	R87
62	62		13-01317-00		10.0 .25 W 5.0 % CF	4	R63,R120,R121,R124
63	63				*** THIS ITEM IS NOT USED ***	-	
64	64		13-01401-00		750.0 .25 W 5.0 % CF	1	R148
65	65		13-01808-00		22.0 K .25 W 5.0 % CF	1	R144
66	66		13-02177-00		47.0 K .25 W 5.0 % CF	4	R59,R83,R141,R142
67	67		13-05260-00		30.0 10.0 W 1.0 % WW	3	R15,R61,R139
68	68		13-02398-00		470.0 K .25 W 5.0 % CF	1	R28
69	69		13-02466-00		100.0 K .25 W 5.0 % CF	4	R143,R189-R191
70	70		13-18150-56		22.10 .25 W 1.0 % RN55D-F10	1	R88
71	71		13-03114-00		1.0 K .25 W 1.0 % RN55D-F10	4	R93,R97,R101,R169
72	72		13-05431-00		10.0 K .25 W 0.1 % RN55E-B 2	5	R41,R65,R105,R111,R128
73	73				*** THIS ITEM IS NOT USED ***	-	
74	74		13-02091-00		330.0 K .25 W 5.0 % CF	1	R166
75	75		13-05126-00		619.0 .25 W 1.0 % RN55D-F10	1	R76
76	76		13-05146-00		8.87 K .25 W 1.0 % RN55D-F10	2	R117,R129
77	77		13-05337-00		3.65 K .25 W 1.0 % RN55D-F10	2	R64,R102
78	78		13-17231-00		4.99 K .25 W 0.1 % RN55E-B 2	1	R40
79	79		13-05346-00		27.0 K .25 W 5.0 % CF	1	R32

D	I	G	I	T	A	L	TITLE	REGULATOR BOARD	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	5416977-0-DBP	C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						01 E10	
80	80		13-05355-00	7.0 K	.25 W 0.1 % RN55C-B 5	1	R36
81	81		13-05432-00	5.11 K	.25 W 0.1 % RN55E-B 2	1	R38
82	82		13-05421-00	35 70 K	.25 W 1.0 % RN55D-F10	1	R100
83	83				*** THIS ITEM IS NOT USED ***	-	
84	84		13-25575-01	260.0	5.0 W 5.0 % WW	3	R3,R4,R280
85	85		13-19470-63		*** THIS ITEM IS NOT USED ***	-	
86	86		13-10876-00	.02	5.0 W 3.0 % WW	2	R16,R19
87	87		13-11522-00	200.0	.25 W 5.0 % CF	2	R54,R55
88	88		13-13152-00	60.40 K	.25 W 1.0 % RN55D-F10	1	R34
89	89		13-22218-01	24.90 K	.25 W 0.1 % RN55E-B 2	3	R151,R152,R187
90	90		13-16115-00	35.70	.25 W 1.0 % RN55D-F10	1	R84
91	91		13-05890-00	4.70	.25 W 5.0 % CF	2	R14,R37
92	92		13-28119-01	16.0	5.0 W 5.0 % WW	1	R178
93	93		13-13343-00	28.70 K	.25 W 1.0 % RN55D-F10	1	R68
94	94		13-13469-00	240.0	.25 W 5.0 % CF	1	R5
95	95		13-18546-09	22.60 K	.25 W 1.0 % RN55D-F10	1	R150
96	96		13-13596-00	20.0 K	.25 W 1.0 % RN55D-F10	2	R116,R130
97	97		13-09420-00	8.25 K	.25 W 1.0 % RN55D-F10	1	R75
98	98		13-03312-00	10.0 K	.25 W 1.0 % RN55D-F10	1	R115
99	99		13-00315-00	470.0	.50 W 5.0 % CF	4	R174-R177
100	100		13-14350-00	1.0	2.0 W 10.0 % WW FUS	2	R1,R2
101	101		13-14350-01		*** THIS ITEM IS NOT USED ***	-	
102	102		13-02645-00	1.10 K	.25 W 1.0 % RN55D-F10	1	R164
103	103		13-22359-01	931.0	.25 W 0.1 % RN55E-B 2	2	R62,R119
104	104		13-16841-00	2.05 K	.25 W 1.0 % RN55D-F10	1	R136
105	105		13-17404-00	249.0	.25 W 1.0 % RN55D-F10	1	R92
106	106		13-17522-00	1.0	.25 W 5.0 % CF	1	R8
107	107		13-17885-00	73.20 K	.25 W 1.0 % RN55D-F10	1	R103
108	108		13-18150-79	45.30	.25 W 1.0 % RN55D-F10	1	R6
109	109		13-18341-41	6.04 K	.25 W 1.0 % RN55D-F10	1	R161
110	110		13-14549-00	1.15 K	.25 W 1.0 % RN55D-F10	1	R90
111	111		13-14988-00	6.65 K	.25 W 1.0 % RN55D-F10	1	R91
112	112		13-21270-02		THERMISTOR PTC 100 30% 100C	1	R122
113	113		13-19221-01	11.80 K	.25 W 0.1 % RN55E-B 2	2	R110,R127
114	114		13-00173-00	10.0	10.0 W 5.0 % WW	1	R25
115	115		13-19471-18	200.0	2.0 W 5.0 % M.OXIDE	1	R23
116	116				*** THIS ITEM IS NOT USED ***	-	
117	117		13-13591-00	1.65 K	.25 W 1.0 % RN55D-F10	1	R104
118	118		13-21270-01		THERMISTOR PTC 100 30%	1	R123
119	119		13-22890-03		THERMISTOR PTC 8.0 K 30%	1	R133
120	120		15-10705-00	XA 05	NPN 500MW SI 60 50 P	4	Q8,Q11,Q13,Q15
121	121		15-10706-00	XA 55	PNP 500MW SI 60 50 P	4	Q7,Q9,Q12,Q14
122	122		15-29638-01	SGSF462	NPN 12A 450V T0218	2	Q1,Q2
123	123		15-22410-01		FET 500V 3A N-CHNNL	3	Q3,Q5,Q6
124	124		15-27849-01		N CH FET 200V 18A T0220	1	Q4
125	125		16-27193-01		CHOKE,240UH*0A,20UH*30A,33KHZ	1	L2
126	126		16-22686-01		XFMR,BASE DRIVE,RATIO 30:3:3:1,3	1	T2
127	127		16-21176-01		XFMR,CURRENT RATIO 200:1 33KHZ	3	T3,T6,T7
128	128		16-28212-01		CHOKE,STACKED 325MH DUAL	1	L3
129	129		16-22459-01		BALUN,PRIMARY LINE 5A RMS 4MH	1	L5

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							REGULATOR BOARD			K	PL	5416977-0-DBP	C

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
					01 E10	
130	130	16-28211-01		AMPLIFIER,MAGNETIC 33KHZ 6A	1	T4
131	131	16-26640-01		INDUCER,OUTPUT FILTER,2V 12A 33K	1	L1
132	132	16-26641-01		XFMR P=240-360V 33KHZ	1	T1
133	133	16-26642-01		MAGNETIC AMPLIFIER,33KHZ 12A -2V	1	T8
134	134	19-12107-B0		LN 324 BURNED-IN OP AMP,QUA	1	E7
135	135	19-12108-B0		339 BURNED-IN VOLT CMPRT	2	E5,E9
136	136	10-13280-00	680	PFD 1000V +/- 5% 200PP	4	C25,C27,C59,C78
137	137	19-16819-B0		3527A MODULATOR,REGULATING	1	E6
138	138	19-17657-B0		3544J LOW-VOLT SUPERVISORY	1	E8
139	139	19-17908-B0		OP AMP DUAL LOW POWE	1	E4
140	140	21-22143-01		H4538B DUAL PREC MONOSTABLE	1	E10
141	141	21-17883-00		4011B NAND GATE,QUAD BUFFE	1	E1
142	142	90-06011-01		SCREW,MACH PAN PHIL 4-	4	
143	143	90-08033-01		SCREW,MACH PAN PHIL 4-	1	
144	144			*** THIS ITEM IS NOT USED ***	-	
145	145			*** THIS ITEM IS NOT USED ***	-	
146	146	19-24072-01		COMPARATOR,QUAD	2	E2,E3
147	147	90-06557-00		NUT,HEX EXT TOOTH LCKWSHR 4-40	7	
148	148	90-09769-00		WASHER,RECTNGLR STEEL	2	
149	149	90-09798-00		SPACER,CLEAR HOLE RND CERAM .07	2	
150	150			*** THIS ITEM IS NOT USED ***	-	
151	151	91-07278-09		TUBING,TEFLON .042ID	A/R	
152	152	13-09413-00		3.83 K .25 W 1.0 % RN55D-F10	1	R184
153	153	13-13476-00		51.10 K .25 W 1.0 % RN55D-F10	1	R26
154	154	13-14187-00		6.19 K .25 W 1.0 % RN55D-F10	1	R163
155	155	10-16546-00		0.22 MFD 600V +/-10% MET.	1	C55
156	156			*** THIS ITEM IS NOT USED ***	-	
157	157	12-28191-01		/INACTIVE	2	
158	158			*** THIS ITEM IS NOT USED ***	-	
159	159	10-13466-54		0.022MFD 50V +/-10% X7R C	2	C39,C58
160	160	10-13466-22		0.10 MFD 50V +80/-20% Z5U C	2	C32,C70
161	161	13-12626-00		2.49 K .25 W 1.0 % RN55D-F10	1	R106
162	162	90-06010-01		SCREW,MACH PAN PHIL 4-	2	
163	163	13-00229-00		100.0 .25 W 5.0 % CF	2	R182,R279
164	164	90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	1	W1
165	165	90-10413-04		RIVET,BLIND,BINDER .125DX .225	2	
166	166	12-17194-00		FUSE CLIP 5AG TYPE	2	
167	167	12-17199-00		FUSE 5AG 3.0 A 600V NORM-BLOW	1	F1
168	168	13-09417-00		27.40 K .25 W 1.0 % RN55D-F10	1	R107
169	169	36-27920-01		LABEL,KAPTON,BLANK	2	
170	170	36-27921-01		LABEL,OVER LAMINATE POLYIMIDE	2	
171	171	91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	
172	172	20-29131-01		HYBRID #1, OVER CURRENT COMPARIT	1	Z1
173	173	20-29132-01		HYBRID #2, UV/OV COMP CKT #2	1	Z2
174	174	90-06656-00		WASHER,FLAT STEEL	2	
175	175	90-00062-12		SCREW,THD RL, PAN,SERATD,F/MET	2	
176	176	91-07560-03		WIRE,BUSS 18AWG TIN BARE	A/R	
177	177	90-09798-01		SPACER,CLEAR HOLE RND CERAM .07	2	

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							REGULATOR BOARD			K	PL	5416977-0-DBP	C

